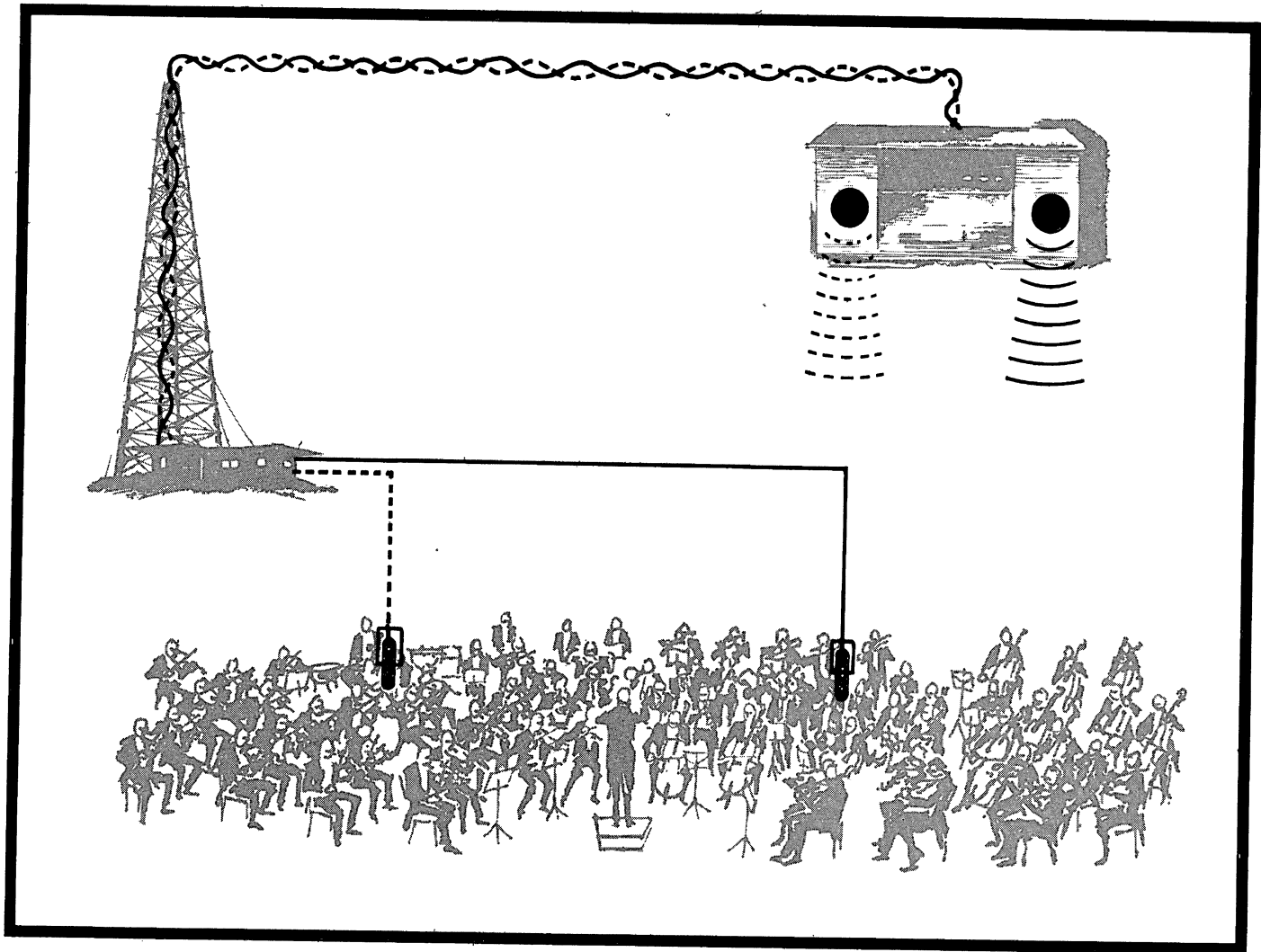


ZENITH[®]

SERVICE MANUAL



**HIGH FIDELITY
AND STEREO FM MODELS**

ZENITH RADIO CORPORATION

1900 N. AUSTIN AVENUE

CHICAGO, ILLINOIS 60639

PRICE \$2.50

HF 15 PART NO. 923-463

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IDENTIFICATION AND SPECIAL FEATURES CODE PGS. 5, 7 & 9

- No. 1 - Zenith - Crest.**
- No. 2 - Zenith-Crest - Battery Powered - Solid State.**
- No. 3 - Zenith-Crest - Solid State.**
- No. 4 - Zenith-Crest - Stereophonic - Solid State.**
- No. 5 - Zenith-Crest - Stereophonic High Fidelity.**
- No. 6 - Zenith-Crest - Stereophonic High Fidelity - Solid State Amplifier.**
- No. 7 - Zenith-Crest - Stereophonic High Fidelity - Solid State Amplifier - AM-FM.**
- No. 8 - Zenith-Crest - Stereophonic High Fidelity - Solid State Amplifier - AM - Stereophonic FM.**
- No. 9 - Zenith-Crest - Stereophonic High Fidelity - Solid State - AM - Stereophonic FM.**
- No. 10 - Zenith-Crest - Stereophonic High Fidelity - Solid State - Extended Bass -
AM - Stereophonic FM.**
- No. 11 - Zenith-Crest - Stereophonic High Fidelity - Solid State - Five Speakers.**
- No. 12 - Zenith-Crest - Stereophonic High Fidelity - AM - Stereophonic FM - Stereophonic Tape.**
- No. 13 - Zenith-Crest - Stereophonic High Fidelity - Solid State - Extended Bass -
AM - Stereophonic FM - Stereophonic Tape.**
- No. 14 - Zenith-Crest - COLOR TV - Color Emblem - Solid State - Stereophonic High Fidelity -
AM - Stereophonic FM.**
- No. 15 - Zenith-Crest - COLOR TV - Color Emblem - Solid State - Stereophonic High Fidelity -
AM - Stereophonic FM - Extended Bass - SPACE COMMAND SIX HUNDRED.**
- No. 16 - Zenith-Crest - Stereophonic High Fidelity - AM - Stereophonic FM.**
- No. 17 - Zenith-Crest - Solid State - AM Radio.**

FEATURES OF HIGH FIDELITY & STEREO FM MODELS

MODEL NO.	CABINET				CHASSIS			SPEAKER		
	STYLE	MATERIAL	FINISH	COLOR	MODEL	TYPE	EIA POWER OUTPUT	SIZE (IN.)	PART NO.	V.C. IMPEDANCE
X505B	Table (w/handle) (lift lid)	Plastic	Textured Plastic	Blue & White	1L20	1 Tube Phono Only	----	4	49-993	3.2
X505V	Table (w/handle) (lift lid)	Plastic	Textured Plastic	Red & White	1L20	1 Tube Phono Only	----	4	49-993	3.2
X508L	Table (w/handle) (lift lid)	Plastic	Textured Plastic	Beige	1N21	1 Tube Phono Only	----	4	349-3	3.2
X508W	Table (w/handle) (lift lid)	Plastic	Textured Plastic	Off White	1N21	1 Tube Phono Only	----	4	349-3	3.2
X508B	Table (w/handle) (lift lid)	Plastic	Textured Plastic	Blue	1N21	1 Tube Phono Only	----	4	349-3	3.2
X510J	Table (w/handle) (lift lid)	Plastic	Textured Plastic	Walnut Brown & Ivory	2NT20	2 Transistor Phono	----	4	349-3	3.2
X510F	Table (w/handle) (lift lid)	Plastic	Textured Plastic	Light Olive & Off White	2NT20	2 Transistor Phono Only	----	4	349-3	3.2
X512C	Table (w/handle) (lift lid)	Plastic	Textured Plastic	Gray Metallic & Black	4NT22	4 Transistor Phono Only (Battery/AC)	----	4 x 6	49-1090	3.2
X512P	Table (w/handle) (lift lid)	Plastic	Textured Plastic	Pale Gold Metallic & Light Gray	4NT22	4 Transistor Phono Only (Battery/AC)	----	4 x 6	49-1090	3.2
X525B	Table (w/handle) (lift lid)	Plastic	Textured Plastic	Blue & White	2NT21 2NT22	Transistor Phono & AM Radio	----	4	49-1039	3.2
X525W	Table (w/handle) (lift lid)	Plastic	Textured Plastic	Off White & White	2NT21 2NT22	Transistor Phono & AM Radio	----	4	49-1039	3.2
X525P	Table (w/handle) (lift lid)	Plastic	Textured Plastic	Ochre & Off white	2NT21 2NT22	Transistor Phono & AM Radio	----	4	49-1039	3.2
X540G	Table (w/handle)	Wood	Plastic Coated	Ivory & Dark Brown	4NT20	4 Transistor Phono Only	----	2-4 x 6	49-926	3.2
X540L	Table (w/handle)	Wood	Plastic Coated	Ivory & Charcoal Gray	4NT20	4 Transistor Phono Only	----	2-4 x 6	49-926	3.2
X547X	Table (w/handle) (latched speaker enclosure)	Wood	Plastic Coated	Pearl Finish, Accent White & Walnut	4NT20	4 Transistor Phono Only	----	2-5 x 7	49-1077	3.2
X547P	Table (w/handle) (latched speaker enclosure)	Wood	Plastic Coated	Metallic Pale Gold & Gray	4NT20	4 Transistor Phono Only	----	2-5 x 7	49-1077	3.2
X550L	Table (w/handle) (hinged speaker enclosure)	Fibrit	Textured Paint	Mocha	4NT21	4 Transistor Phono Only	----	2-6 1/2	49-1084	3.2
X550W	Table (w/handle) (hinged speaker enclosure)	Fibrit	Textured Paint	Antique White	4NT21	4 Transistor Phono Only	----	2-6 1/2	49-1084	3.2

FEATURES OF HIGH FIDELITY & STEREO FM MODELS

RECORD CHANGER				CONTROL PANEL	INDICATOR LIGHT	TYPE OF IDENTIFICATION AND SPECIAL FEATURES	RECORD STORAGE	REMOTE SPEAKER
TYPE	MOUNTING	CART-RIDGE	STYLUS					
Manual Player	Shelf	142-95	Sapphire Sapphire	None	No	1	None	None
Manual Player	Shelf	142-95	Sapphire Sapphire	None	No	1	None	None
169-279	Shelf	142-156	Sapphire Sapphire	Metal Plate	No	1	None	None
169-279	Shelf	142-156	Sapphire Sapphire	Metal Plate	No	1	None	None
169-278	Shelf	142-156	Sapphire Sapphire	Metal Plate	No	1	None	None
169-284	Shelf	142-157 or 142-149	Sapphire Sapphire	Metal Plate	No	3	None	None
169-284	Shelf	142-157 or 142-149	Sapphire Sapphire	Metal Plate	No	3	None	None
169-277	Shelf	142-156	Sapphire Sapphire	Metal Plate	No	2	None	None
169-277	Shelf	142-156	Sapphire Sapphire	Metal Plate	No	2	None	None
169-297	Shelf	142-156	Sapphire Sapphire	Metal Plate	No	17	None	None
169-298	Shelf	142-156	Sapphire Sapphire	Metal Plate	No	17	None	None
169-298	Shelf	142-156	Sapphire Sapphire	Metal Plate	No	17	None	None
169-273	Hinged Panel	142-148	Sapphire Sapphire	Hot Stamped on Cabinet	No	4	None	None
169-274	Hinged Panel	142-148	Sapphire Sapphire	Hot Stamped on Cabinet	No	4	None	None
169-275	Hinged Panel	142-148	Sapphire Sapphire	Metal Plate	No	4	None	None
169-275	Hinged Panel	142-148	Sapphire Sapphire	Metal Plate	No	4	None	None
169-270	Hinged Panel	142-142	Sapphire Sapphire	Metal Plate	No	4	None	None
169-269	Hinged Panel	142-142	Sapphire Sapphire	Metal Plate	No	4	None	None

FEATURES OF HIGH FIDELITY & STEREO FM MODELS

MODEL NO.	CABINET				CHASSIS			SPEAKER		
	STYLE	MATERIAL	FINISH	COLOR	MODEL	TYPE	EIA POWER OUTPUT	SIZE (IN.)	PART NO.	V.C. IMPEDANCE
X554C	Table (w/handle) (hinged speaker enclosures)	Fibrit	Textured Paint	Colonial Black	6NT20	6 Transistors Phono Only	----	2-6 x 9 2-3 1/2	49-1111 49-978	3.2 45.
X554P	Table (w/handle) (hinged speaker enclosures)	Fibrit	Textured Paint	Pearl Beige	6NT20	6 Transistors Phono Only	----	2-6 x 9 2-3 1/2	49-1111 49-978	3.2
X560W	Table (w/handle) (hinged speaker enclosure)	Wood	Plastic Coated Cloth	Walnut	Waters Conley	10 Transistors Phono Only	----	2-8 2-4 2-3 1/2	964-18016 964-13857 964-16237	8. 6.4 34.
X562W	Table (w/handle) (hinged speaker enclosure)	Wood & Fibrit	Plastic Coated Cloth	Walnut & Brown	10NT01	10 Transistors Phono Only	16W.	3 x 14 2-5 1/4 2-3 1/2	49-830 49-1089 49-978	6.4 6.4 45.
X562Y	Table (w/handle) (hinged speaker enclosure)	Wood & Fibrit	Plastic Coated Cloth	Black & White	10NT01	10 Transistors Phono Only	16W.	3 x 14 2-5 1/4 2-3 1/2	49-830 49-1089 49-978	6.4 6.4 45.
X584W	Table (w/handle) (hinged) speaker enclosure)	Wood	Plastic Coated Cloth	Walnut & Beige	10L02Z	Phono-AM-FM	5W.	2-3 1/2 2-8	49-978 49-1009	45. 6.4
X804W	Console (lift lid)	Wood	Wood	Walnut	8NT02 6L01Z9	Phono-AM-FM	8W.	2-3 1/2 2-6 x 9	49-978 49-1063	45. 16.
X904W	Console (lift lid)	Wood	Wood	Walnut	8NT02 7L01Z9	Phono-AM-FM	8W.	2-3 1/2 2-6 x 9	49-978 49-1063	45. 16.
X905R	Console (lift lid)	Wood	Wood	Mahogany	8NT02 7L01Z9	Phono-AM-FM	8W.	2-3 1/2 2-6 x 9	49-978 49-1063	45. 16.
X905H	Console (lift lid)	Wood	Wood	Cherry	8NT02 7L01Z9	Phono-AM-FM	8W.	2-3 1/2 2-6 x 9	49-978 49-1063	45. 16.
X906M	Console (lift lid)	Wood	Wood	Maple	8NT02 7L01Z9	Phono-AM-FM	8W.	2-3 1/2 2-6 x 9	49-978 49-1063	45. 16.
X920W	Console (lift lid)	Wood	Wood	Walnut	18XT20Z	Phono-AM-FM	16W.	4-3 1/2 2-10	49-1094 49-1064	45. 16.
X922R	Console (lift lid)	Wood	Wood	Mahogany	18XT20Z	Phono-AM-FM	16W.	4-3 1/2 2-10	49-1094 49-1064	45. 16.
X922H	Console (lift lid)	Wood	Wood	Cherry	18XT20Z	Phono-AM-FM	16W.	4-3 1/2 2-10	49-1094 49-1064	45. 16.
X924M	Console (lift lid)	Wood	Wood	Maple	18XT20Z	Phono-AM-FM	16W.	4-3 1/2 2-10	49-1094 49-1064	45. 16.
X926W	Console (lift lid)	Wood	Wood	Walnut	18XT20Z	Phono-AM-FM	16W.	4-3 1/2 2-10	49-1094 49-1064	45. 16.
X930W	Console (lift lid) (Pivotal Louwer Doors)	Wood	Wood	Walnut	20XT20	Phono-AM-FM	30W.	6-3 1/2 2-10	49-1094 49-1097	45. 10.
X932H	Console (lift lid) (Pivotal Louwer Doors)	Wood	Wood	Cherry	20XT20	Phono-AM-FM	30W.	6-3 1/2 2-10	49-1094 49-1097	45. 10.
X934M	Console (lift lid) (Pivotal Louwer Doors)	Wood	Wood	Maple	20XT20	Phono-AM-FM	30W.	6-3 1/2 2-10	49-1094 49-1097	45. 10.

FEATURES OF HIGH FIDELITY & STEREO FM MODELS

RECORD CHANGER				CONTROL PANEL	INDICATOR LIGHT	TYPE OF IDENTIFICATION AND SPECIAL FEATURES	RECORD STORAGE	REMOTE SPEAKER
TYPE	MOUNTING	CART-RIDGE	STYLUS					
169-251	Hinged Panel	142-151	Diamond Sapphire	Metal Plate	No	4	None	None
169-262	Hinged Panel	142-151	Diamond Sapphire	Metal Plate	No	4	None	None
159-263	Shelf	142-151	Diamond Sapphire	Metal Plate	No	6	None	None
169-262	Shelf	142-151	Diamond Sapphire	Plastic Escutcheon	No	11	None	None
169-251	Shelf	142-151	Diamond Sapphire	Plastic Escutcheon	No	11	None	None
169-263	Hinged Panel	142-151	Diamond Sapphire	Plastic Escutcheon	No	16	None	None
169-290	Shelf	142-151	Diamond Sapphire	Plastic Escutcheon	No	7	Yes	None
169-290	Shelf	142-151	Diamond Sapphire	Plastic Escutcheon	No	8	Yes	None
169-290	Shelf	142-151	Diamond Sapphire	Plastic Escutcheon	No	8	Yes	None
169-290	Shelf	142-151	Diamond Sapphire	Plastic Escutcheon	No	8	Yes	None
169-290	Shelf	142-151	Diamond Sapphire	Plastic Escutcheon	No	8	None	None
169-290	Shelf	142-151	Diamond Sapphire	Die-Cast Escutcheon	No	9	Yes	None
169-290	Shelf	142-151	Diamond Sapphire	Die-Cast Escutcheon	No	9	Yes	None
169-290	Shelf	142-151	Diamond Sapphire	Die-Cast Escutcheon	No	9	Yes	None
169-290	Shelf	142-151	Diamond Sapphire	Die-Cast Escutcheon	No	9	Yes	None
169-290	Shelf	142-151	Diamond Sapphire	Die-Cast Escutcheon	No	9	Yes	None
169-290	Shelf	142-151	Diamond Sapphire	Die-Cast Escutcheon	No	9	Yes	S2434
169-290	Shelf	142-151	Diamond Sapphire	Die-Cast Escutcheon	No	9	Yes	S2434
169-290	Shelf	142-151	Diamond Sapphire	Die-Cast Escutcheon	No	9	Yes	S2434

FEATURES OF HIGH FIDELITY & STEREO FM MODELS

MODEL NO.	CABINET				CHASSIS			SPEAKER		
	STYLE	MATERIAL	FINISH	COLOR	MODEL	TYPE	EIA POWER OUTPUT	SIZE (IN.)	PART NO.	V.C. IMPEDANCE
X938W	Console (lift lid)	Wood	Wood	Walnut	20XT20	Phono-AM-FM	30W.	6-3 1/2 2-10	49-1094 49-1097	45. 10.
X940W	Console (lift lid)	Wood	Wood	Walnut	26XT20	Phono-AM-FM	70W.	4-3 1/2 2-horn 2-12	49-1094 49-1042 49-1045	45. 6.4 6.4
X942M	Console (lift lid)	Wood	Wood	Maple	26XT20	Phono-AM-FM	70W.	4-3 1/2 2-horn 2-12	49-1094 49-1042 49-1045	45. 6.4 6.4
X950W	Console (lift lid)	Wood	Wood	Walnut	26XT20	Phono-AM-FM	70W.	4-3 1/2 2-horn 2-12	49-1094 49-1042 49-1045	45. 6.4 6.4
X952	Console (lift lid)	Wood	Wood	Dark Oak	26XT20	Phono-AM-FM	70W.	4-3 1/2 2-horn 2-12	49-1094 49-1042 49-1045	45. 6.4 6.4
X954H	Console (lift lid)	Wood	Wood	Cherry	26XT20	Phono-AM-FM	70W.	4-3 1/2 2-horn 2-12	49-1094 49-1042 49-1045	45. 6.4 6.4
X958DE	Console (lift lid)	Wood	Wood		26XT20	Phono-AM-FM	70W.	4-3 1/2 2-horn 2-12	49-1094 49-1042 49-1045	45. 6.4 6.4
X960W	Console (lift lid) (Pivotal Louver Doors)	Wood	Wood	Walnut	24XT24 6XT24	Phono-AM-FM	160W.	4-3 1/2 2-horn 2-15	49-1094 49-1004 49-1073	45. 8. 6.4
X962H	Console (lift lid)	Wood	Wood	Cherry	24XT24 6XT24	Phono-AM-FM	160W.	4-3 1/2 2-horn 2-15	49-1094 49-1004 49-1073	45. 8. 6.4
X964H	Console (lift lid)	Wood	Wood	Cherry	24XT24 6XT24	Phono-AM-FM	160W.	4-3 1/2 2-horn 2-15	49-1094 49-1004 49-1073	45. 8. 6.4
X964X	Console (lift lid)	Wood	Wood	Antique White	24XT24 6XT24	Phono-AM-FM	160W.	4-3 1/2 2-horn 2-15	49-1094 49-1004 49-1073	45. 8. 6.4
X966DE	Console (lift lid) (Pivotal Louver Doors)	Wood	Wood	Dark Oak	24XT24 6XT24	Phono-AM-FM	160W.	4-3 1/2 2-horn 2-15	49-1094 49-1004 49-1073	45. 8. 6.4
X968M	Console (lift lid)	Wood	Wood	Maple	24XT24 6XT24	Phono-AM-FM	160W.	4-3 1/2 2-horn 2-15	49-1094 49-1004 49-1073	45. 8. 6.4
25X8520W	Console (lift lid)	Wood	Wood	Walnut	23XC38Z 20XT20Z	Color-TV Phono-AM-FM	30W.	2-4 x 6 2-10	49-1106 49-1104	45. 10.
25X8530W	Console (lift lids)	Wood	Wood	Walnut	23XC38Z 26XT20	Color-TV Phono-AM-FM	70W.	6-3 1/2 2-12	49-1094 49-1082	45. 6.4
25X8540M	Console (lift lids)	Wood	Wood	Maple	23XC38Z 26XT20	Color-TV Phono-AM-FM	70W.	6-3 1/2 2-12	49-1094 49-1082	45. 6.4
25X8550H	Console (lift lids)	Wood	Wood	Cherry	23XC38Z 26XT20	Color TV- Phono-AM-FM	70W.	6-3 1/2 2-12	49-1094 49-1082	45. 6.4
25X8560H	Console (lift lids)	Wood	Wood	Cherry	23XC38Z 26XT20	Color TV- Phono-AM-FM	70W.	6-3 1/2 2-12	49-1094 49-1082	45. 6.4
25X8580H	Console (lift lids) (Folding Doors)	Wood	Wood	Cherry	23XC38Z 24XT24 6XT24	Color TV- Phono-AM-FM	160W.	4-3 1/2 2-horn 2-12	49-1094 49-1004 49-1080	45. 8. 6.4
S2434W	Table	Wood	Wood	Walnut	----	-----	---	3 1/2 6 x 9	49-1094 49-984	45. 6.4
S2437W	Table	Wood	Wood	Walnut	----	-----	---	Horn 12	49-1004 49-1102	8. 6.4

FEATURES OF HIGH FIDELITY & STEREO FM MODELS

RECORD CHANGER (SEE NOTES)				CONTROL PANEL	INDICATOR LIGHT	TYPE OF IDENTIFICATION AND SPECIAL FEATURES	RECORD STORAGE	REMOTE SPEAKER
TYPE	MOUNTING	CART-RIDGE	STYLUS					
169-290	Shelf	142-151	Diamond Sapphire	Die-Cast Escutcheon	No	9	Yes	S2434
169-290	Shelf	142-151	Diamond Sapphire	Die-Cast Escutcheon	Yes	9	Yes	S2437
169-290	Shelf	142-151	Diamond Sapphire	Die-Cast Escutcheon	Yes	9	Yes	S2437
169-290	Shelf	142-151	Diamond Sapphire	Die-Cast Escutcheon	Yes	9	Yes	S2437
169-290	Shelf	142-151	Diamond Sapphire	Die-Cast Escutcheon	Yes	9	Yes	S2437
169-290	Shelf	142-151	Diamond Sapphire	Die-Cast Escutcheon	Yes	9	Yes	S2437
169-290	Shelf	142-151	Diamond Sapphire	Die-Cast Escutcheon	Yes	9	Yes	S2437
169-292	Shelf	142-151	Diamond Sapphire	Die-Cast Escutcheon	Yes	10	Yes	S2437
169-292	Shelf	142-151	Diamond Sapphire	Die-Cast Escutcheon	Yes	10	Yes	S2437
169-292	Shelf	142-151	Diamond Sapphire	Die-Cast Escutcheon	Yes	10	Yes	S2437
169-292	Shelf	142-151	Diamond Sapphire	Die-Cast Escutcheon	Yes	10	Yes	S2437
169-292	Shelf	142-151	Diamond Sapphire	Die-Cast Escutcheon	Yes	10	Yes	S2437
169-290	Shelf	142-151	Diamond Sapphire	Die-Cast Escutcheon	Yes	14	None	S2434
169-290	Shelf	142-151	Diamond Sapphire	Die-Cast Escutcheon	Yes	14	None	S2434
169-290	Shelf	142-151	Diamond Sapphire	Die-Cast Escutcheon	Yes	14	None	S2434
169-290	Shelf	142-151	Diamond Sapphire	Die-Cast Escutcheon	Yes	14	None	S2434
169-290	Shelf	142-151	Diamond Sapphire	Die-Cast Escutcheon	Yes	14	None	S2434
169-292	Shelf	142-151	Diamond Sapphire	Die-Cast Escutcheon	Yes	15	None	S2437
-----	----	-----	-----	-----	No	1	----	---
-----	----	-----	-----	-----	No	1	----	---

GENERAL INFORMATION

MULTIPLEX THEORY

For all theory regarding the operation of the multiplex circuits, refer to service manuals HF-14 and HF-14 Supplement.

EXTENSION SPEAKER SYSTEMS

It is recommended that only Zenith extension speakers be used in conjunction with Zenith receivers. However, if the technician should desire to use other speakers, it is imperative the total impedance be not less than that impedance indicated on the back of each receiver, adjacent to the speaker terminal board.

MUTING CONTROL

The 10K muting control which supplies a reverse bias voltage to the emitter of the 19KC amplifier is factory adjusted, and should not require readjustment. However, if the receiver is operated in an extremely noisy area, there is a possibility that there may be noise bursts of sufficient magnitude to overcome this mute voltage ... when this occurs, the Stereophonic FM Indicator will light up. To further cut off the 19KC amplifier, carefully rotate the 10K muting control in a clockwise direction. This should only be done when a stereo signal is on the air since the mute control must only be advanced to a point where the Stereo Indicator does not light up on noise, but it should not be advanced to a point where the desired stereo signal is cut off.

MULTIPLEX ALIGNMENT

These receivers have been properly aligned at the factory and will not require further adjustment. As a result, it is not recommended that any attempt be made to alter the multiplex stages. However, should any major components in these circuits require replacement or should anyone tamper with the multiplex adjustments then, of course, realignment will be necessary.

Zenith has designed and manufactured an SPTE-1 Multiplex Generator that can be used to properly align the multiplex portion of these receivers. The multiplex alignment procedure is included in later pages of this manual. The SPTE-1 Multiplex Generator is available at your Zenith Distributor.

ANTENNAS FOR STEREO FM

Due to the characteristics of the stereo FM system, it will require more signal for proper performance than does monaural FM. As a result, it may be necessary to operate the stereo FM receiver with an external antenna. The necessity for an external antenna will be determined by the signal conditions at each individual installation.

EXTERNAL FM ANTENNA

If the receiver is operated in an area of either low signal strength, high noise, or where multipath (FM ghosts) signals are present, a good external FM antenna will be required. The necessity of an external antenna as a result of weak signal or noise, will be

quite evident since the set will not limit, and/or noise will be quite evident. It is extremely difficult to determine if multipath (FM ghosts) signals are present, however, should the program material be distorted, the best manner to decide if multipath signals are the cause of the problem, is to connect an external FM antenna to the receiver. Usually a TV antenna may be available for trial, but even then the results can be misleading, since many TV antennas are of low gain on FM frequencies.

FM CABINET ANTENNA

All models except the X584 contain an FM antenna built into the cabinet. This antenna consists of a length of wire cut to the desired frequency, and attached to the internal periphery of the cabinet. The X584 uses a built-in line antenna.

SIGNAL STRENGTH CHART

There are certain minimum voltages necessary for proper stereo FM reception. To help determine if there is sufficient signal available, the following developed AGC voltage versus microvolt input voltage charts have been compiled. Since the desired FM Station may not always be operating in the stereo mode when an installation is made, these AGC voltage measurements have been taken with a monaural FM signal. The point "*" of minimum AGC voltage necessary for good stereo FM reception has been indicated on these charts. For chassis 18XT20 & 20XT20 connect a V.T.V.M. to the junction of 10K, 4.7 K and C30 5 mfd (test point B).

For chassis 7L01Z9 and 10L02Z connect a V.T.V.M. to the feed-thru condenser on the top of the chassis, 3/8 of an inch to the right of the FM antenna coil. A green wire is connected to this feed-thru capacitor.

For chassis 24XT24 and 26XT20 connect a V.T.V.M. to the forward AGC input feed-thru terminal at the rear of the FM-RF tuner.

Chassis 7L01Z9

Micro-volts Input	AGC Voltage at RG Grid
0	0.35 V
20	1.50
50	1.99
100	2.32
200	2.62
500	3.00
1 K	*3.30
5 K	5.40
10 K	7.20
20 K	9.0
50 K	12.0
100 K	14.0

Chassis 10L02Z

Micro-volts Input	AGC Voltage at RF Coil
0	.46
20	.85
50	1.34
100	1.71
200	2.0
500	2.43
1 K	*2.73
5 K	3.45
10 K	3.9
20 K	4.4
50 K	5.2
100 K	6.1

Chassis 18XT20 and 20XT20

Micro-volts Input	AGC Voltage at RF Coil
0	1.4
10	1.4
20	1.4
50	1.4
100	1.4
200	1.6
500	1.9
1 K	*2.0
2 K	2.1
5 K	2.15
10 K	2.2
20 K	2.3
50 K	2.4
100 K	2.5

Chassis 24XT24 and 26XT20

Micro-volts Input	Forward AGC Voltage At Tuner Forward AGC Input Feed-Thru Terminal
100	1.35
500	2.0
1 K	*2.18
5 K	2.25
10 K	3.3
50 K	4.1
100 K	4.45

AUTOMATIC FREQUENCY CONTROL AFC

These receivers feature an automatic frequency control which automatically keeps your receiver on the exact station frequency when you are tuned to an FM station. To utilize this feature tune the receiver as instructed and then turn the band switch to AFC position.

When the desired FM station is a weak station, adjacent in frequency to a strong station, the AFC may pull the tuning into the stronger station. Under these conditions, place the bandswitch in FM position and tune the receiver as instructed.

Tuning the receivers on the frequency modulation band will require more care than on the broadcast band. A hissing sound may be noted when tuning between Frequency Modulation stations. This is normal, and will disappear as the station is tuned in. After a station is located, the pointer should be moved back and forth over it until the point of quietest reception and best tone quality is found. Correct tuning is indicated by the disappearance of background noise.

SPEAKER PHASING

It is most important that coded speaker leads be connected to coded terminals on speakers for proper polarity within each speaker group. It is also then most important that the speaker groups be in phase with each other. One excellent method is to play a monaural record as described under Automatic Balance Control.

Under these conditions the sound should appear to come from a point midway between the two speaker groups. If the sound comes from any other point than midpoint, then one speaker group is out of phase with the other and you should check polarity. One of the easiest methods of checking polarity within the speaker group is to momentarily place a 4½ volt battery across the speaker feed terminals. All the speaker cones should simultaneously move in the same direction.

POWER AMPLIFIERS

Power transistors and their circuits are unique in operation, therefore, repair procedure differs from those steps followed when repairing tube type circuits.

1. Each channel of the 6XT24, 8NT02, 8NT04, 18XT20, 20XT20, and 26XT20 amplifiers use a pair of matched power transistors in the final output state. Therefore, should one transistor fail, both transistors must be replaced simultaneously, since they will not perform properly unless matched.
2. When a power transistor is replaced the insulator between the transistor and the heat sink should also be replaced. On chassis 2NT20, 4NT20, 6XT24, 18XT20, 20XT20, and 26XT20 be certain to apply Dow Corning #340 heat conductive grease between the transistor and the insulator. Also between the insulator and the chassis. The Dow Corning grease can be obtained in 1 c.c. quantities by ordering part #203-51.
3. On chassis 8NT02 and 8NT04 place the heat conductive grease in the detent of the chassis, all around the transistor and also into the detent in the combination heat sink and retaining bracket.
4. Do not operate these amplifiers without their proper speaker load.
5. Do not short out the audio output of either channel when the amplifier is operating.
6. Should a power transistor fail (short) be certain to replace the emitter resistors for the specific channel. Also be certain to check the condition of the silicon diode rectifiers.
7. Remove transistors from their sockets before doing any soldering to the socket lugs.

FM, RF, AND IF ALIGNMENT - CHASSIS 18XT20, 20XT20, 24XT24 AND 26XT20

Alignment of these chassis will, in most cases, not be necessary unless an RF or IF transformer is replaced or if someone has tampered with the adjustments.

Because of the wide band pass required in the multiplex FM tuner, it is desirable to use an FM signal generator having a deviation of 400 KC with a sweep rate of 60 cycles as well as an oscilloscope when aligning both the IF and RF FM portions of this receiver. It is not only necessary to obtain maximum amplitude in the IF amplifier stages, but also necessary to maintain symmetry. To help achieve this symmetry, it is desirable to have 10.6, 10.7 and 10.8 megacycle markers in obtaining IF curve symmetry.

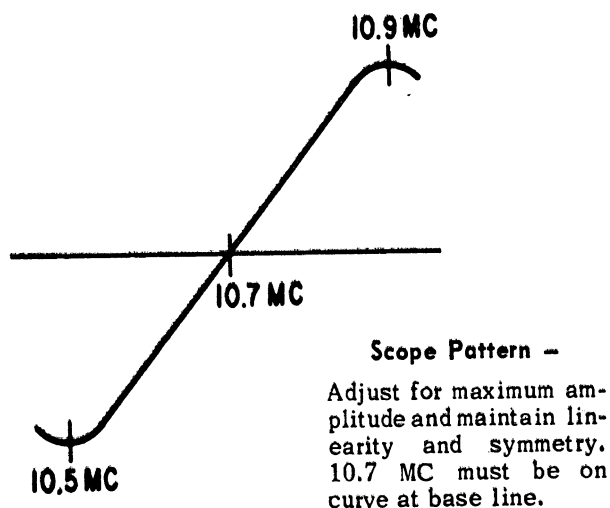
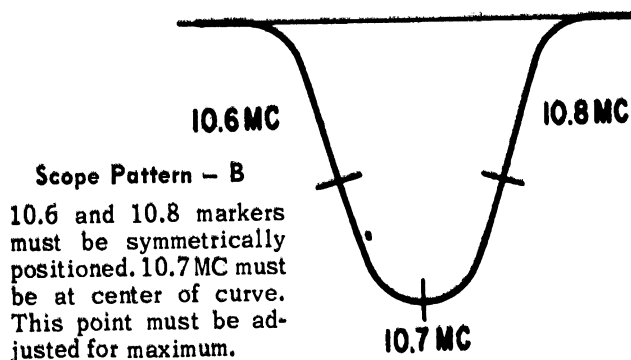
The condenser mentioned further on in the alignment procedure should be as small as possible and the ground lead of the generator must be connected to the chassis at the base of the socket, where the signal is being injected. Should the signal be injected at some point other than a socket, then the ground lead should be connected to ground as closely as possible to this point.

In all alignment procedures, the signal generator output should be kept just high enough to obtain an indication. This is most necessary, since on some chassis we have a zero time constant limiter which will clip the signals if their magnitude is too great, resulting in erroneous waveforms.

AM ALIGNMENT

- A. On chassis 18XT20, 20XT20, 26XT20 and 24XT24 connect scope or V.T.V.M. to junction of 10 ohm resistor and .001 mfd capacitor Test Point (H). The 10 ohm resistor is connected to terminal #6 of the ratio detector transformer.
- B. On chassis 18XT20, 20XT20, 26XT20 and 24XT20 connect the scope to the base of the last FM IF transistor Test Point (G). The common scope terminal should be connected to chassis.

- C. An AC output meter connected across the primary or secondary of the output transformer will be satisfactory for all AM, IF and RF adjustments.



RF AND IF ALIGNMENT CHASSIS 7L01Z9 AND 10L02Z

Alignment of these chassis will, in most cases be unnecessary unless an IF or RF transformer is replaced or the adjustments have been tampered with.

FM Discriminator Alignment: When the secondary of the discriminator is aligned use sufficient signal input to get a good positive and negative indication before setting the slug for zero reading. A center zero indicating meter is recommended for this adjustment, but is not absolutely necessary. Reversing the leads of a non-zero center meter, or observing closely when the meter starts to go to the left (negative) of zero will give the same results.

FM IF Alignment: Because of the wide band pass, it is desirable to use an FM signal generator and a

cathode ray oscilloscope when aligning the FM IF channel. The instruction book for the Zenith Model 800 Signal Generator (Form Z8001) covers complete FM alignment procedure. If visual alignment equipment is unavailable, reasonably accurate alignment can be made by following the procedure outlined in this service note.

Correct alignment can only be made if the following procedure is followed:

A vacuum tube voltmeter with an isolation resistor of 2,000,000 ohms in series with the hot lead will serve for FM adjustments. This lead should be shielded.

The signal generator output should be kept just high enough to get an indication on the meter.

OPERATION	CONNECT OSCILLATOR TO	DUMMY ANTENNA	INPUT SIGNAL FREQUENCY	BAND	SET DIAL TO	ADJUST	PURPOSE
1(d)	Pin 7 12BE6 Converter	.05 Mfd.	455 Kc. 400 Cycle Modulated	BC	600 Kc.	L8, 9, 16, 17	Align IF channel for maximum output
2(d)	2 turns loosely coupled to wavemagnet		1600 Kc. 400 Cycle Modulated	BC	1600 Kc.	C32D	Set oscillator to dial scale
3(d)	2 turns loosely coupled to wavemagnet		1400 Kc. 400 Cycle Modulated	BC	1400 Kc.	C32B	Align antenna stage
4(a)	Pin 1 (grid) on 12AU6 limiter	.05 Mfd.	10.7 Mc. Unmodulated	FM		L12 coil slug pri. discr.	Align primary of discriminator for maximum reading
5(f)	Pin 1 (grid) on 12AU6 limiter	.05 Mfd.	10.7 Mc. Unmodulated	FM		L13 coil slug sec. of discr.	Adjust secondary of discriminator for zero reading
6(c)	Pin 1 (grid) on 12BA6 2nd I.F.	.05 Mfd.	10.7 Mc. Unmodulated	FM		L10 & L11 pri. & sec. of 3rd If trans.	Align 3rd IF transf. for max. reading
7(c)	Pin 1 (grid) on 12BA6 1st IF	.05 Mfd.	10.7 Mc. Unmodulated	FM		L6 & L7 2nd IF transf.	Align 2nd IF transf. for max. reading
8(c)	Pin 2 (grid) on 12DT8 converter tube socket	.05 Mfd.	10.7 Mc. Unmodulated	FM		L4 & 5 pri. & sec. of 1st IF transf.	Align 1st IF transf. for max. reading
9(c)	Antenna Post FM	270 Ohms	98 Mc. Unmodulated	FM	98 Mc.	L3 osc. coil slug	Set osc. to dial scale
10(c)	(Remove line ant.)	270 Ohms	98 Mc. Unmodulated	FM	98 Mc.	L2 det. coil slug	Align det. stage to max. reading

RF and IF Alignment Procedure for Chassis 7L01Z9

- (a) Vacuum Tube Voltmeter Lug 1 on discriminator transformer to chassis (half discriminator load).
- (c) Vacuum Tube Voltmeter from Term. #3 of T4 3rd IF Trans.
- (d) Vacuum Tube Voltmeter Lug 2 of T3 to Chassis.
- (f) Vacuum Tube Voltmeter Pin #1 of 19GQ7 Disc. Tube to Chassis (full discriminator load)

OPERATION	CONNECT OSCILLATOR TO	DUMMY ANTENNA	INPUT SIGNAL FREQUENCY	BAND	SET DIAL TO	ADJUST	PURPOSE
1(d)	Pin 7 12BE6 Converter	.05 Mfd.	455 Kc. 400 Cycle Modulated	BC	600 Kc.	L22, 23, 6, 7	Align IF channel for maximum output
2(d)	2 turns loosely coupled to wavemagnet		1600 Kc. 400 Cycle Modulated	BC	1600 Kc.	C32D	Set oscillator to dial scale
3(d)	2 turns loosely coupled to wavemagnet		1400 Kc. 400 Cycle Modulated	BC	1400 Kc.	C32B	Align antenna stage
4(a)	Pin 1 (grid) on 12AU6 limiter	.05 Mfd.	10.7 Mc. Unmodulated	FM		L14 coil slug pri-discr.	Align primary of discriminator for maximum reading
5(f)	Pin 1 (grid) on 12AU6 limiter	.05 Mfd.	10.7 Mc. Unmodulated	FM		L15 coil slug sec. of discr.	Adjust secondary of discriminator for zero reading
6(c)	Pin 1 (grid) on 12BA6 2nd I.F.	.05 Mfd.	10.7 Mc. Unmodulated	FM		L12 & L13 pri. & sec. of 3rd If transf.	Align 3rd IF transf. for max. reading
7(c)	Pin 1 (grid) on 12BA6 1st IF	.05 Mfd.	10.7 Mc. Unmodulated	FM		L10 & L11 2nd IF transf.	Align 2nd IF transf. for max. reading
8(c)	Pin 7 (grid) on 12DT8 converter tube socket	.05 Mfd.	10.7 Mc. Unmodulated	FM		L8 & 9 pri. & sec. of 1st IF transf.	Align 1st IF transf. for max. reading
9(c)	Antenna Post FM	270 Ohms	98 Mc. Unmodulated	FM	98 Mc.	L3 osc. coil slug	Set osc. to dial scale
10(c)	(Remove line ant.)	270 Ohms	98 Mc. Unmodulated	FM	98 Mc.	L2 det. coil slug	Align det. stage to max. reading

RF and IF Alignment Procedure for Chassis 10L02Z

- (a) Vacuum Tube Voltmeter Lug 1 on discriminator transformer to chassis (half discriminator load).
- (c) Vacuum Tube Voltmeter from Term. #3 of T4 3rd IF Trans.
- (d) Vacuum Tube Voltmeter Lug 2 of T10 to Chassis.
- (f) Vacuum Tube Voltmeter Pin #9 of 19GQ7 Disc. Tube to Chassis (full discriminator load)

RF AND IF ALIGNMENT PROCEDURE FOR CHASSIS 18XT20 AND 20XT20

OPERATION	CONNECT GENERATOR TO	DUMMY ANTENNA	INPUT SIGNAL FREQUENCY	SET DIAL TO	ADJUST IRON CORES	PURPOSE
1A	Term. #3 of T3 3rd IF Trans.	47 ohm in shunt with gen. output. Then from hot lead a 27 ohm in series with a .001 MFD capacitor.	10.7 Mc. 400 Kc. Deviation	88 Mc.	L11	Adjust Primary and secondary of ratio detector for maximum amplitude and symmetry as shown in Scope Pattern "B"
2A	Term. #3 of T3 3rd IF Trans.		10.7 Mc. 400 Kc. Deviation	88 Mc.	L12	
3B	Term. #3 of T2-2nd IF Trans.		10.7 Mc. 400 Kc. Deviation	88 Mc.	L9 & L10	Align I.F. transformers for maximum output and symmetry. This pattern is not necessarily identical to the overall Scope Pattern "A"
4B	Term. #1 of T1 1st IF Trans.		10.7 Mc. 400 Kc. Deviation	88 Mc.	L7 & L8	
5B	Connect to Test Point #D		10.7 Mc. 400 Kc. Deviation	88 Mc.	L5 & L6	
6B	Connect to Test Point #D		10.7 Mc. 400 Kc. Deviation	88 Mc.	Readjust L5, L6, L7, L8, L9 & L10	Align I.F. transformers for maximum output and symmetry as indicated in Scope Pattern "A"
7B	FM Antenna Post (Remove Antenna)	300 ohm	98 Mc. 400 Kc. Deviation	98 Mc.	L4	Set oscillator to Dial Scale.
8B	FM Antenna Post (Remove Antenna)	300 ohm	98 Mc. 400 Kc. Deviation	98 Mc.	L2	Align FM Detector stage for maximum.
9C	Test Point #L	.05 in series with hot lead of gen.	455 Kc. 400 Cycle Modulated	600 Kc.	L15, L14, L21 & L20	Align AM IF for maximum.
10C	Two turn loop loosely coupled to wave-magnet		1600 Kc. 400 Cycle Modulated	1600 Kc.	C39D	Set oscillator to dial scale.
11C	Two turn loop loosely coupled to wave-magnet		1400 Kc. 400 Cycle Modulated	1400 Kc.	C39A	Align detector and antenna stages.

For A, B, C See Page 12

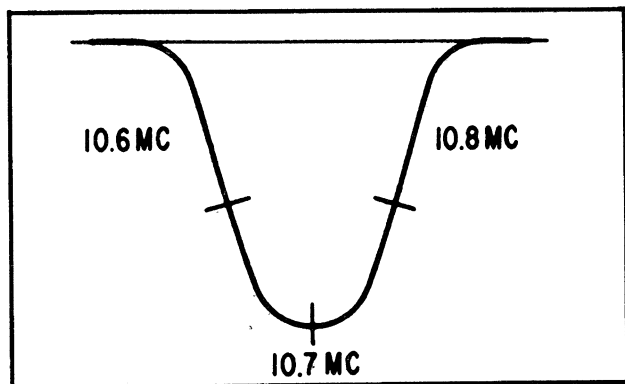
RF AND IF ALIGNMENT PROCEDURE FOR CHASSIS 24XT24 AND 26XT20

OPERATION	CONNECT GENERATOR TO	DUMMY ANTENNA	INPUT SIGNAL FREQUENCY	SET DIAL TO	ADJUST IRON CORES	PURPOSE
1 A	Term. #3 of T4 4th IF Trans.	47 ohm in shunt with gen. output. Then from hot lead a 27 ohm in series with a .001 MFD capacitor.	10.7 Mc. 400 Kc. Deviation	88 Mc.	L16	Adjust Primary and secondary of ratio detector for maximum amplitude and symmetry as shown in Scope Pattern "B"
2 A	Term. #3 of T4 4th IF Trans.		10.7 Mc. 400 Kc. Deviation	88 Mc.	L17	
3 B	Term #3 of T3 3rd IF Trans.		10.7 Mc. 400 Kc. Deviation	88 Mc.	L14, L15	Align I.F. transformers for maximum output and symmetry. This pattern is not necessarily identical to the overall Scope Pattern "A"
4 B	Term. #3 of T2 2nd IF Trans.		10.7 Mc. 400 Kc. Deviation	88 Mc.	L12, L13	
5 B	Connect to emitter of TR2 Mixer Test Point #K		10.7 Mc. 400 Kc. Deviation	88 Mc.	L10, L11	
6 B	Connect to emitter of TR2 Mixer Test Point #K.		10.7 Mc. 400 Kc. Deviation	88 Mc.	L5, L6	Align I.F. transformers for maximum output and symmetry as indicated in Scope Pattern "A"
7 B	Connect to emitter of TR2 Mixer Test Point #K		10.7 Mc. 400 Kc. Deviation	88 Mc.	Readjust L5, L6, L10, L11, L12, L13, L14, L15	
8 B	FM Antenna Post (Remove Antenna)	300 ohm	98 Mc. 400 Kc. Deviation	98 Mc.	L7	Set oscillator to Dial Scale.
9 B	FM Antenna Post (Remove Antenna)	300 ohm	98 Mc. 400 Kc. Deviation	98 Mc.	L3, L2, L1	Align RF output, RF input and FM Antenna stages for maximum.
10 C	Base of TR8(26XT20) Base of TR9(24XT24) AM RF transistor	.05 in series with hot lead of gen.	455 Kc. 400 Cycle Modulated	600 Kc.	L27, L28, L19, L20, L21, L22	Align AM IF for maximum.
11 C	Two turn loop loosely coupled to wave-magnet		1600 Kc. 400 Cycle Modulated	1600 Kc.	26NT20 C47E 24XT24 C54F	Set oscillator to dial scale.
12 C	Two turn loop loosely coupled to wave-magnet		1400 Kc. 400 Cycle Modulated	1400 Kc.	26NT20 C47D, C47B 24XT24 C54D, C54B	Align detector and antenna stages.

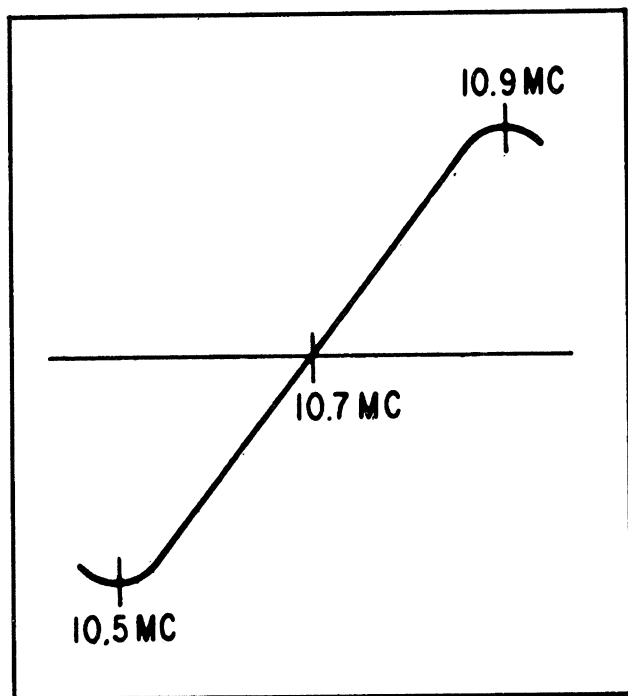
For A, B, C See Page 12

MULTIPLEX ALIGNMENT PROCEDURE CHASSIS 24XT24 AND 26XT20

Using the Zenith FM multiplex signal generator, the multiplex portion of Zenith or any FM multiplex receiver can be aligned, but first before any attempt is made to do this it is necessary that the technician be certain that the RF, IF, and ratio detector alignment is correct, and that the receiver operates normally on monaural signals.



IF CURVE



RATIO DETECTOR CURVE

Because of the wide band pass required in the multiplex FM receiver, it is desirable to use an FM signal generator having a deviation of at least 200 KC with a sweep rate of 60 cycles, as well as an oscilloscope. During the IF and ratio detector alignment it is not only necessary to obtain maximum gain, but also extremely important to maintain symmetry.

To help achieve this IF curve symmetry 10.6 and 10.8 megacycle markers must be symmetrically positioned and the 10.7 megacycle marker must be at the center of the curve. When aligning the ratio detector 10.5 and 10.9 megacycle markers are desirable to achieve S curve symmetry. The pattern illustrating marker use

to obtain S curve symmetry indicates it is most necessary to adjust for maximum gain and at the same time maintain linearity and symmetry. 10.7 megacycles must be on the curve at the reference line. 10.5 megacycles and 10.9 megacycles must be at the lower and upper turn of the S curve respectively. Only when the I.F. and ratio detector circuitry have been aligned in accordance with these specifications should the technician proceed to align the multiplex portion of the receiver.

PRELIMINARY PROCEDURES

Before using the Zenith FM multiplex signal generator it is recommended that it be connected to the power source and turned on giving it a 10 to 20 minute warmup period. This will allow ample time for the RF audio and 19 KC oscillators to stabilize.

The following procedure is only necessary when the generator has been received from the factory, or has been subjected to a great deal of handling or transportation vibration. Although the 19KC pilot generator oscillator is extremely stable, there is always the possibility that it could shift from its precisely assigned frequency. As a result we have a very simple method to check the 19KC pilot frequency using an FM multiplex receiver and FM multiplex station as a frequency standard. Proceed as follows:

1. Tune your FM multiplex receiver to an FM multiplex station and when the pilot lights up, this indicates the 19KC pilot amplifier is functioning. Since the 19KC sine wave is from the transmitter it must be on frequency and can be used as a reference standard. With a cable connect the collector output of TR13, the 19KC amplifier to the vertical input of a good oscilloscope.
2. On the multiplex generator set the pilot carrier amplitude control to 10%. Place L-R, L+R and 67KC switches in OFF position and connect the composite output terminal directly to the horizontal input of the oscilloscope. On the oscilloscope you will see an oval Lissajous figure which should be motionless when the 19KC output of the generator is synchronized with the 19KC signal from the transmitter. Should the Lissajous figure rotate it will only be necessary to adjust the pilot carrier frequency trimmer on the multiplex generator with an IF alignment wrench until the Lissajous figure ceases to rotate. After the generator has been adjusted to zero beat, disconnect all cables.

The multiplex generator provides a composite multiplex signal as well as an RF signal, FM modulated by the composite multiplex signal.

The composite signal is very useful since it is an excellent tool that can be used in signal tracing the multiplex portion of the receiver. We do not recommend that multiplex alignment be made using only the composite signal injected at the output terminal of the ratio detector tertiary winding, since there is always some phase shift occurring in the RF, IF or ratio detector circuits. As a result, multiplex alignment made by a signal injected at the ratio detector would not be correct. For proper multiplex alignment the composite signal must FM modulate the RF carrier and then be fed into the FM antenna terminals. With the signal injected in this manner the multiplex alignment would then be the best that could possibly be obtained and separation would be the maximum for this receiver.

67 KC Trap Adjustment

1. Connect the stereo generator RF leads to the G and F FM antenna terminals and set the pilot carrier control to zero.
2. Move L + R and L - R switches to OFF position.
3. Move 67KC generator switch from OFF position up to 67KC.
4. Connect the V.T.V.M. (AC scale) and/or scope to terminal #5 of T10 19KC amplifier transformer, and chassis ground.
5. Adjust 67KC trap for minimum output.
6. Move 67KC generator switch to OFF position.

19KC Sub Carrier Amplifier, Doubler and Mute Adjustments

1. Turn generator pilot carrier amplitude control to 10% position.
2. Connect the V.T.V.M. (DC scale) and/or scope to the junction of the two frequency doubling diodes and chassis.
3. Place the stereo-monaural switch in stereo position and short Test Point #T to GND.
4. Adjust T10 19KC amplifier transformer and T11 doubler transformer for maximum output. Simultaneously adjust the mute control so the voltage at the junction of the two frequency doubling diodes never exceeds -.2 volt during this operation. The voltage must be kept at this minimum for proper alignment.
5. Remove GND from Test Point #T.
6. Turn generator pilot carrier amplitude control to 5% position.
7. Slowly rotate the mute control to a point where the stereo indicator lights up.

Separation Adjustments

1. Place stereo monaural switch in Stereo position.
2. Turn generator pilot carrier amplitude control to 10% position.
3. Move L-R and L+R generator switches from OFF position up to L-R and L+R positions.
4. Connect a V.T.V.M. (AC scale) and/or scope to the L audio output, after the 38KC filter.
5. Adjust T12 38KC detector transformer for maximum voltage at L output. The magnitude of this signal should be much greater than that at the R output. The voltage at the L output should be approximately 10 times or greater than at the R output.

TROUBLE-SHOOTING

Should a problem arise in aligning the FM multiplex portion of the receiver and the technician does not know whether the difficulty lies in the RF, IF, limiter and ratio detector portions of the receiver, or whether the difficulty lies in the multiplex portion, the multiplex generator can be used as an excellent signal tracing device to determine if the multiplex section of the receiver is functioning properly. The composite output of the multiplex generator can be

injected at the output of the ratio detector. To reduce possible extraneous signals coming through the ratio detector, short the ratio detector primary with a jumper lead. The wave forms and their magnitudes may vary slightly from chassis to chassis, however, they are quite indicative of what will be seen when signal tracing the multiplex circuitry.

67KC Signal Tracing

1. Turn generator pilot carrier amplitude control to zero.
2. Move L+R and L-R switches to OFF position.
3. Move 67KC generator switch from OFF position up to 67KC. Sequentially connect an oscilloscope to the input and output of the 67KC trap. The 67KC signal at the output of the trap if it is properly nulled, will be much smaller than at the input. The voltage ratio should be approximately 20 to 1 input to output.

19KC Signal Tracing

1. Move the 67KC generator switch to OFF.
2. Rotate the generator 19KC pilot carrier amplitude control to 10% position.
3. Sequentially connect your scope to the base of composite amplifier, base of 19KC amplifier and collector of 19KC amplifier. The amplitude of the 19KC signal should greatly increase as you proceed along the 19KC chain.

Doubler and Subcarrier Signal Tracing

To determine if the doubler is functioning, place your scope at the junction of the two diodes and you will see 38KC DC pulses. Placing the scope at the collector of the subcarrier amplifier, you should see a 38KC sine wave which will indicate that the subcarrier amplifier and associated ringing circuitry is functioning properly.

Multiplex Detector Signal Tracing

1. Leave the 19KC amplitude control at 10%.
2. Move the L - R generator switch from OFF position to L - R position. You should see equal amplitude 1000 cycle sine waves at both L and R outputs.
3. Move the L+R switch from OFF up to L+R and look at the L audio output, and measure the magnitude of the 1000 cycle sine wave. If the multiplex detector and preceeding circuitry are aligned properly, the magnitude of the wave form at L should be greater than at R.

If all the waves are similar in form and magnitude to those indicated, then it can be assumed that the multiplex portion of the receiver is functioning properly and the problem lies ahead of this in the FM receiver. If any of the wave forms are missing at a latter point but are apparent at a previous point, then something is amiss in the circuitry between the two test points.

PARTS LIST

PART NO.	DESCRIPTION	PRICE	PART NO.	DESCRIPTION	PRICE
CHASSIS 1L20					
22-2786	.068 Mfd. Capacitor - 200V.		63-5440	Voltage Dependent Resistor	.80
22-2793	.047 Mfd. Capacitor - 400V.		63-6042	220 ohm Resistor-1W. 10%	.25
22-2794	.047 Mfd. Capacitor - 600V.		63-6319	Tone Control	.80
22-3762	Electrolytic Capacitor-40/150, 20/150, 20/25	2.50	63-6406	430 Ohm Fusing Type Resistor	1.60
54-139	3/8-32 x 9/16 Palnut-Cadmium (1 mts. each 63-5035 & 63-5036)	.03	63-6407	Loudness Control	1.65
63-1750	150 ohm Resistor 1/2W. 10%	.17	79-174-8	#18 Sleeving - Yellow - 1"	.03
63-1849	33K ohm Resistor 1/2W. 20%	.17	79-209-8	#22 Sleeving - Yellow - 1"	.03
63-1856	47K ohm Resistor 1/2W. 20%	.17		(part of S-67794)	.03
63-1884	220K ohm Resistor 1/2W. 20% (2 Req'd.)	.17	79-210-8	#22 Sleeving - Green - 1"	.03
63-5035	Tone Control	1.40		(part of S-67794)	.03
63-5036	Volume Control & Switch	2.05	79-211-8	#22 Sleeving - Blue - 1"	.03
63-5373	90 ohm Fusing Type Resistor	.40		(part of S-67794)	.03
78-1542	Wafer Tube Socket	.20	83-5147	10 Lug Terminal Strip - Grip Type (2 required)	.25
79-174-12	#18 Sleeving-Yellow (4 Required)	.03	83-5148	Insulating Strip	.03
83-2715	Three Lug Terminal Strip	.05	83-5284	5 Lug Terminal Strip	.15
93-1576	.054 x .129 x .250 Steel Washer (2 Req.)		83-5291	Insulating Strip	.03
95-2041	Output Transformer	2.25	83-5688	Transistor Insulating Strip (part of 800-158 or S-67794)	.03
212-47	Silicon Rectifier	1.25	86-199	Terminal	.03
CHASSIS 1N21					
11-145	Line Cord & Plug	80	86-334	Socket Terminal (4 required)	
22-2786	.068 Mf. Capacitor-200V.		94-1419	Shoulder Bushing (One furnished as part of 800-158 & 2 use when S-67794 is used)	
22-2793	.047 Mf. Capacitor-400V.		94-1424	Shoulder Bushing (Furnished as part of 800-158)	
22-2804	.022 Mf. Capacitor-200V.		95-2341	Output Transformer	2.10
22-4600	Electrolytic Capacitor	1.95	114-940	4-40 x 5/16 x 3/16 Hex Hd. Mach. Screw - Cadmium (2 mt. S-67794 or 800-158)	.03
22-4617	.01 Mf. Disc Capacitor-500V.	.10		Transistor (Driver)	.80
or			121-314	Rectifier	1.25
22-3	.01 Mf. Disc Capacitor-500V.	.30	212-71	or	
43-519	Socket Contact Housing	.20	212-27	Rectifier	2.00
52-1202	Phono Cable & Plug	.60	S-67794	Transistor, Strip & Grease Assembly	5.00
63-1750	150 ohm Resistor-1/2W. 10%	.17	or		
63-1828	10K ohm Resistor-1/2W. 20%	.17	800-158	Transistor - Output Assbly. (121-436)	
63-1856	47K ohm Resistor-1/2W. 20%	.17	S-73673	Wire & Terminal Assembly - Brown (Furnished as part of 800-158)	
63-1898	470K ohm Resistor-1/2W. 20%	.17	CHASSIS 2N21		
63-5374	110 ohm Fusing Type Resistor	.35	11-87	A.C. Line Cord	
63-6318	Volume Control	.75	12-4318	Switch Mtg. Bracket	
63-6319	Tone Control	.80	22-2884	5 Mf. Electrolytic Capacitor - 12W.	1.50
78-1410	Molded Tube Socket (25C5)	.25	22-3317	.1 Mf Capacitor - 200V.	.35
83-5305	Seven Lug Terminal Strip	.20	22-3659	.047 Mf Capacitor - 400V. (2 required)	.25
83-5306	Insulating Strip	.05	22-4097	.022 Mf Capacitor - 200V.	.25
86-328	Wire Retaining Terminal	.03	22-4568	100 Mf Electrolytic Capacitor - 15V.	
86-334	Terminal (3 used on 43-519)	.10	22-4675	Dual Electrolytic Capacitor	
95-2312	Output Transformer	1.70	43-519	Socket Contact Housing	.20
212-71	Silicon Rectifier	1.25	52-1222	Four Conductor Cable	
or			54-384	4-40 Palnut - Cadmium (1 used on ea. 114-940)	.03
212-27	Silicon Rectifier	2.00	58-214	Phono Plug	.10
CHASSIS 2N20					
11-87	A.C. Line Cord		63-1733	56 Ohm Resistor - 1/2W. - 10%	.17
22-3	.01 Mf. Disc. Capacitor-500V. (2 Required)	.30	63-1764	330 Ohm Resistor - 1/2W. - 10%	.17
22-3317	.1 Mf. Capacitor-200V.	.35	63-1803	2700 Ohm Resistor - 1/2W. - 10%	.17
22-3615	1 Mf. Electrolytic Capacitor	1.25	63-1814	4700 Ohm Resistor - 1/2W. - 20%	.17
22-3659	.047 Mf. Capacitor-400V. (2 Req'd.)	.95	63-1862	68K Ohm Resistor - 1/2W. - 10%	.17
22-4568	100 Mf. Electrolytic Capacitor	2.45	63-1873	120K Ohm Resistor - 1/2W. 10%	.17
22-4644	Electrolytic Capacitor	.20	63-1905	680K Ohm Resistor - 1/2W. - 20%	.17
43-519	Socket Contact Housing	.55	63-1912	1 Megohm Resistor - 1/2W. - 20%	.46
52-1218	Single Conductor shielded lead & Plug		63-5302	350 Ohm Fusing Type Resistor - 3W.	.80
52-1222	Four Conductor Cable		63-5440	Voltage Dependent Resistor	.15
54-384	4-40 Palnut-Cadmium (1 used on ea. 114-940)	.03	63-6112	10K Ohm Resistor - 1W. - 10%	.80
63-1827	10K ohm Resistor-1/2W. 10%		63-6319	Tone Control	
63-1848	33K ohm Resistor-1/2W. 10%		63-6858	Loudness Control	
63-1862	68K ohm Resistor-1/2W. 10%		79-174-12	#18 Sleeving - Yellow - 1-1/2"	.03
63-1870	100K ohm Resistor-1/2W. 20%		79-209-8	#22 Sleeving - Yellow - 1" (Part of S-67794)	.03
63-1880	180K ohm Resistor-1/2W. 10%	.17	79-210-8	#22 Sleeving - Green - 1" (Part of S-67794)	.03
63-1908	820K ohm Resistor-1/2W. 10%	.17			
63-1912	1.0 Megohm Resistor-1/2W. 20%	.17			

PART NO.	DESCRIPTION	PRICE	PART NO.	DESCRIPTION	PRICE
CHASSIS 2NT21 (Cont'd)			22-3994	500 Mf Electrolytic Capacitor - 15V.	1.75
79-211-8	#22 Sleeving - Blue - 1" (Part of S-67794)	.03	22-4097	.022 Mf Mylar Capacitor - 200V.	.25
83-5147	Ten Lug Terminal Strip	.25	22-4182	.33 Mf Mylar Capacitor - 200V.	.60
83-5148	Insulating Strip	.03	22-5171	180 Mf Electrolytic Capacitor - 6V.	.75
83-5170	Three Lug Terminal Strip	.10	22-5172	500 Mf Electrolytic Capacitor - 6V.	1.05
83-5171	Insulating Strip	.03	22-5173	Dual Electrolytic Capacitor	2.75
83-5284	5 Lug Terminal	.15	43-519	Socket Contact Housing	.20
83-5291	Insulating Strip	.03	52-1218	Phono Cable & Plug	.55
83-5688	Transistor Insulating Strip (Part of 800-158 or S-67794)		52-1219	Three Conductor Cable	
85-915	Off-On, Phono. Radio Switch		63-1701	10 Ohm Resistor - 1/2W. - 10%	.17
86-199	Terminal (2 required)	.03	63-1705	12 Ohm Resistor - 1/2W. - 10% (2 req'd.)	.17
86-334	Socket Terminal (4 used on 52-1222)	.10	63-1750	150 Ohm Resistor - 1/2W. - 10%	.17
94-1419	Shoulder Bushing (One furnished as part of 800-158 & 2 use when S-67794 is used)		63-1768	390 Ohm Resistor - 1/2W. - 10% (2 req'd.)	.17
94-1424	Shoulder Bushing (Furnished as part of 800-158)		63-1771	470 Ohm Resistor - 1/2W. - 10%	.17
95-2341	Output Transformer	2.10	63-1775	560 Ohm Resistor - 1/2W. - 10%	.17
114-940	4-40 x 5/16 x 3/16 Hex Hd. Machine Screw - Cadmium	.03	63-1813	4700 Ohm Resistor - 1/2W. - 10%	.17
121-441	Transistor (Driver)		63-1817	5600 Ohm Resistor - 1/2W. - 10% (2 required)	
212-71	Rectifier	1.25	63-1831	12K Ohm Resistor - 1/2W. - 10%	
S-67794	Transistor, Strip & Grease Assbly.	5.00	63-1866	82K Ohm Resistor - 1/2W. - 10%	.17
or			63-1869	100K Ohm Resistor - 1/2W. - 10%	
800-158	Transistor - Output Assbly. (121-436)		63-1932	3.3 Megohm Resistor - 1/2W. - 10%	.17
S-73673	Wire & Terminal Assembly - Brown (Furnished as part of 800-158)		63-5951	1.5 Ohm Resistor - 1W. - 10% (2 req'd.)	.80
CHASSIS 2NT22			63-6319	Tone Control	.90
22-3	.01 Mf Disc Capacitor - 500V.	.30	63-6379	Volume Control	.90
22-2428	1.8 Pf Gimmick Capacitor		79-174-8	#18 Sleeving - Yellow - 1"	.03
22-2884	5 Mf Electrolytic Capacitor - 12V.	1.50	79-174-12	#18 Sleeving - Yellow - 1-1/2"	.03
22-2998	.1 Mf Capacitor - 50V.	.35	79-174-34	#18 Sleeving - Yellow - 4-1/4"	.10
22-3034	.05 Mf Disc Capacitor - 25V. (3 req'd.)	.45	83-2964	Six Lug Terminal Strip	
22-3615	1 Mf Electrolytic Capacitor	1.25	83-5286	Eight Lug Terminal Strip	.20
22-4509	20 Mf Electrolytic Capacitor - 25V.	.70	83-5325	Seventeen Lug Terminal Strip	
22-4657	Two Section Variable Capacitor		85-889	Battery Switch	.50
52-1296	Three Conductor Cable		86-334	Socket Terminal (3 required)	.10
63-1750	150 Ohm Resistor - 1/2W. 10%	.17	90-697	Spacer (2 used on 85-889)	
63-1771	470 Ohm Resistor - 1/2W. - 10%	.17	95-2336	Driver Transformer	2.95
63-1772	470 Ohm Resistor - 1/2W. - 20%	.17	95-2337	Power Transformer	2.35
63-1785	1K Ohm Resistor - 1/2W. - 10% (2 req'd.)		114-47	6-20 x 7/16 x 1/4 Hex Hd. Self-Tap Screw - Stat. Bronze (2 mt. 85-889)	.03
63-1786	1K Ohm Resistor - 1/2W. - 20%	.17	121-401	Transistor - Output - Matched (2 req'd.)	1.75
63-1792	1500 Ohm Resistor - 1/2W. - 10%	.17	121-408	Transistor Pre-Amp	1.30
63-1809	3900 Ohm Resistor - 1/2W. - 5%		121-409	Transistor - Driver	1.30
63-1810	3900 Ohm Resistor - 1/2W. - 10%	.17	125-140	Strain Relief Grommet	.10
63-1814	4700 Ohm Resistor - 1/2W. - 20%	.17	136-64	Fuse - 1/4 Amp	.15
63-1848	33K Ohm Resistor - 1/2W. - 10%		212-71	Silicon Rectifier	1.25
63-1852	39K Ohm Resistor - 1/2W. - 10% (2 req'd.)		or		
63-1888	300K Ohm Resistor - 1/2W. - 5%		212-27	Silicon Rectifier	2.00
83-3042	Rubber Strip	.03	CHASSIS 6XT24		
86-412	Antenna Terminal (4 part of S-72896)	.03	22-2939	680 Pf Disc Capacitor - 500V. (2 req'd.)	.25
95-2171	1st I.F. Transformer	2.50	22-3135	.1 Mf Capacitor - 400V.	.35
95-2403	Oscillator Transformer		22-3241	100 Mf Electrolytic Capacitor - 50V. (2 required)	1.50
103-44	Diode	.50	22-3878	2000 Mf Electrolytic Capacitor - 75V.	6.50
103-74	Diode	.50	22-3881	1500 Mf Electrolytic Capacitor - 50V.	5.00
105-49	Integnet	1.00	22-3883	50 Mf Electrolytic Capacitor - 50V.	1.25
113-10	6-32 x 3/16 x 1/4 Hex Hd. Machine Screw - N.P. - Int. Shakeproof		22-4109	.033 Mf Capacitor - 200V. (2 required)	
	Lockwasher (3 mt. 22-4657)	.03	22-4601	.01 Mf Disc Capacitor - 1KV.	.20
121-312	Transistor (Converter)	.80	22-4666	.001 Mf Disc Capacitor - 1KV.	.40
121-313	Transistor (I.F.)	.72	22-4673	500 Mf Electrolytic Capacitor - 50V. (2 required)	
126-1206	Shield		22-5162	Three Section Electrolytic Capacitor - 50V	4.47
149-311	Iron Core Sleeve	.10	43-333	Three Contact Housing (Male)	.20
S-72896	Antenna Assembly		43-573	Six Contact Housing (Female)	.45
CHASSIS 4NT22			43-574	Nine Contact Housing (Female)	.35
Z-4NL	Battery (6 required when used)		54-579	10-32 x 3/8 x 3/16 Thick - Hex Nut - Cadmium (1 used on ea. 212-62)	.03
11-87	Line Cord & Plug		62-30	Fuse Holder	.40
22-14	.0047 Mf Disc Capacitor - 500V.	.25	63-1750	150 Ohm Resistor - 1/2W. 10% (2 required)	.17
22-18	.0022 Mf Disc Capacitor - 500V.	.25	63-1764	330 Ohm Resistor - 1/2W. - 10%	.17
22-2884	5 Mf Electrolytic Capacitor - 12V. (2 required)	1.50	63-1820	6800 Ohm Resistor - 1/2W. - 10% (2 required)	
			63-1827	10K Ohm Resistor - 1/2W - 10% (2 required)	.17

PART NO.	DESCRIPTION	PRICE	PART NO.	DESCRIPTION	PRICE
CHASSIS 6XT24 (Cont'd)					
63-1912	1 Megohm Resistor - 1/2W. - 20%	.17	24-1239	Tuner Cover	.35
63-5217	2 Ohm Resistor - 10W. - 10%	.80	26-1321	Dial Scale	
63-5282	.39 Ohm Resistor - 5W. - 5% (2 req'd.)	.75	43-519	Socket Contact Housing (used on 52-1109)	.20
63-5367	0.43 Ohm Resistor - 5W. - 5% (2 req'd.)	.75	43-570	Socket Contact Housing - Male	.45
63-5369	220 Ohm Resistor - 5W. - 10% (2 req'd.)	.75	52-1109	Four Conductor Cable	.75
63-5638	180 Ohm Resistor - 2W. - 10% (2 req'd.)		54-139	3/8-32 x 9/16 Palnut - Cadmium (used on 85-910)	.03
63-5641	220 Ohm Resistor - 2W. - 10% (2 req'd.)	.34	56-426	Roll Pin (4 required)	.05
63-5656	470 Ohm Resistor - 2W. - 10% (2 req'd.)	.34	56-512	Roll Pin (2 required)	.03
63-5961	2.7 Ohm Resistor - 1W. - 10% (4 req'd.)	.25	57-4806	Dial Background Plate	.25
63-6442	560 Ohm Resistor - 3W. - 10% (2 req'd.)	.30	58-214	Single Prong Plug (2 pt. of S-54511)	.10
78-402	Four Contact Socket	.15	59-655	Dial Pointer	
78-1347	Electrolytic Socket (3 required)	.10	63-1740	82 Ohm Resistor 1/2W. - 10%	.17
78-1486	Two Contact Transistor Socket (6 req'd.)		63-1779	680 Ohm Resistor 1/2W. - 20% (3 req'd.)	.17
79-174-12	#18 Sleeving - Yellow - 1-1/2"	.03	63-1786	1K Ohm Resistor 1/2W. - 20%	.17
83-3881	Four Lug Terminal Strip	.20	63-1814	4700 Ohm Resistor 1/2W. - 20%	.17
83-4203	Three Lug Terminal Strip	.05	63-1842	22K Ohm Resistor 1/2W. - 20% (2 req'd.)	.17
83-4633	Felt Strip	.03	63-1856	47K Ohm Resistor 1/2W. - 20%	.17
83-5277	Insulating Strip - Transistor (6 required)	.03	63-1859	56K Ohm Resistor 1/2W. - 20% (used on S-64580)	.17
83-5284	Five Lug Terminal Strip (6 required)	.15	63-1870	100K Ohm Resistor 1/2W. - 20%	.17
83-5291	Insulating Strip - Used on 83-5284 (6 required)	.03	63-1873	120K Ohm Resistor 1/2W. - 10%	.17
86-303	Terminal - Male (3 required)	.04	63-1876	150K Ohm Resistor 1/2W. - 10% (2 req'd.)	.17
86-328	Wire Retaining Terminal (2 required)	.03	63-1877	150K Ohm Resistor 1/2W. - 20%	.17
86-389	Terminal - Female (13 required)	.03	63-1880	180K Ohm Resistor 1/2W. - 10%	.17
93-2	Rivet Washer (4 required)	.03	63-1912	1 Megohm Resistor 1/2W. - 20%	.17
93-369	Internal Lockwasher Shakeproof #1210 (1 used on 212-62)	.03	63-1926	2.2 Megohm Resistor 1/2W. - 20% (3 req'd.)	.17
93-1179	Rubber Washer	.03	63-1939	4.7 Megohm Resistor 1/2W. - 10%	.17
95-2425	Power Transformer		63-4199	2200 Ohm Resistor 1/4W. - 10%	.17
95-2427	Transformer - Driver		63-4283	220K Ohm Resistor 1/4W. - 10%	.17
95-2428	Driver Transformer		63-4519	2.7 Ohm Resistor 1/2W. - 10%	.17
114-271	6-20 x 1/2 x 1/4 Hex Head Self-Tap Screw - Stat. Bronze (2 mt. ea. 121-271 & 121-382)	.04	63-5238	300 Ohm Resistor 10W. - 10%	.80
114-601	10 x 1/2 x 5/16 Hex Washer Head Self-Tap Screw - Stat. Bronze (4 mt. 95-2425)	.04	76-1398	Drive Shaft	1.00
114-801	8-18 x 5/16 x 1/4 Hex Head Self-Tap Screw - Stat. Bronze (4 mt. ea. S-73152)	.03	76-1399	Extension Shaft	.25
121-271	Transistor - Driver (2 required)	3.05	76-1403	Guide Shaft	.10
121-382	Transistor - Power (4 required)	4.30	78-1099	Three Contact Socket	.20
136-61	Fuse - 3 Amp	.35	78-1314	Wafer Socket - 12AU6 - 12BA6 (3 required)	.30
212-62	Rectifier (2 required)	3.10	78-1318	Wafer Socket - 12BE6	.35
S-73152	Heat Sink Assembly (2 required)		78-1364	Noval Wafer Socket - 12DT8	.35
			78-1590	Wafer Socket - 12AL-5	.35
			79-174-12	#18 Sleeving - Yellow (4 required)	.03
			79-205-8	#16 Sleeving - Yellow	
			80-209	Drive Cord Tension Spring	.10
			80-1140	Drive Cord Tension Spring	.10
			80-1467	Retaining Spring	.05
			80-1468	Grounding Spring	.05
			83-2612	Two Lug Terminal Strip	.05
			83-3561	Cable Retaining Strip	.05
			83-3843	Twelve Lug Terminal Strip	.35
			83-3862	Pointer Support Strip (1 pt. of ea. S-57222)	.20
			83-4086	Insulating Strip	.03
			83-4751	Special Terminal Strip	.15
			33-5540	Insulating Strip (used on 85-910)	
			83-5727	Insulating Strip (used on 85-910)	
			83-5785	Single Lug Terminal Strip	
			85-910	Bandswitch	
			86-328	Wire Retaining Terminal	.03
			86-334	Socket Terminal (4 used on 52-1109)	.10
			86-370	Socket Terminal (5 required)	.03
			93-993	Bakelite Washer (used on 85-910)	.03
			94-613	Iron Core Bushing (2 required)	.10
			95-1505	2nd I.F. Transformer - AM	2.50
			95-1718	1st I.F. Transformer - AM	2.50
			95-1866	Discriminator Transformer - FM	2.50
			95-1919	2nd & 3rd I.F. Transformer - FM (2 required)	2.50
			95-2120	1st I.F. Transformer - FM	2.50
			103-47	Diode	3.75
			105-42	R/C Network	.50
			105-79	R/C Network	.50
			113-8	6-32 x 1/4 x 1/4 Hex Hd. Machine Screw - Nickel Plate - Int. Lockwasher Attached (3 mt. 22-3961)	.03
CHASSIS 6LOI29					
12-3385	Tuner Bracket	.40			
12-4199	Support Bracket	.20			
17-170	Cable Clamp	.10			
19-238	Coil Mtg. Clip (1 pt. of ea. S-52362 & S-61505)	.10			
19-322	Coil Mtg. Clip (2 required)	.05			
22-3	.01 Mf Disc Capacitor - 500V. (9 req'd.)	.30			
22-5	100 Pf Disc Capacitor - 500V. (2 req'd.)	.25			
22-9	100 Pf Disc Capacitor - 500V.	.25			
22-14	.0047 Mf Disc Capacitor - 500V.	.25			
22-16	470 Pf Disc Capacitor - 500V. (2 req'd.)	.25			
22-17	.001 Mf Disc Capacitor - 1000V. (2 required)	.25			
22-18	.0022 Mf Disc Capacitor - 500V.	.25			
22-1888	.001 Mf Ceramic Capacitor - 500V. (used on S-62887)	.25			
22-2569	.047 Mf Capacitor - 600V. (2 required)	.40			
22-3456	2 x 12 Pf Disc Capacitor - 500V. (used on S-64580)	.30			
22-3621	22 Pf Disc Capacitor - 500V. (used on S-64580)	.25			
22-3627	.047 Mf Capacitor - 100V.	.35			
22-3675	10 Pf Disc Capacitor - 500V. (used on S-64580)	.25			
22-3961	Variable Capacitor	3.75			
22-4613	Feed Thru Capacitor (4 required)				
22-5325	26 Pf Disc Capacitor				

PART NO.	DESCRIPTION	PRICE	PART NO.	DESCRIPTION	PRICE
CHASSIS 6LO1Z9 (Cont'd.)			54-139	3/8-32 x 9/16 Palnut - Cadmium (used on 85-907)	.03
114-344	6-20 x 1/4 Hex Hd. Self-Tap Screw - Stat. Bronze (2 used on 12-4199)	.03	56-426	Roll Pin (4 required)	.05
114-564	8-18 x 5/16 Hex Hd. Self-Tap Screw - Stat. Bronze - Flat Washer attached (used on S-64124)	.03	56-512	Roll Pin (2 required)	.03
114-809	8-18 x 3/16 Hex Hd. Self-Tap Screw - Stat. Bronze (1 used on S-64124 & 2 used on ea. S-64123 & 57-4806)	.03	57-4806	Dial Background Plate	.25
126-937	Tube Shield & Base	.10	58-214	Single Prong Plug (2 used on 52-1242)	.10
126-1031	Tube Shield & Base	.10	59-655	Dial Pointer	.17
126-1063	Shield	.15	63-1744	100 Ohm Resistor 1/2W. - 20%	.17
149-211	Iron Core (part of S-61505)	.10	63-1779	680 Ohm Resistor 1/2W. - 20% (4 req'd.)	.17
149-311	Ferrite Sleeve	.10	63-1796	1800 Ohm Resistor 1/2W. - 10%	.17
149-335	Iron Core & Spring (used on 12-3385)	.25	63-1800	2200 Ohm Resistor 1/2W. - 20%	.17
149-336	Iron Core & Spring (used on 12-3385)	.25	63-1835	15K Ohm Resistor 1/2W. - 20%	.17
188-232	Retaining Ring (1 pt. of ea. S-57222 & 1 used on ea. 76-1398 & 76-1399)	.03	63-1838	18K Ohm Resistor 1/2W. - 10%	.17
199-381	Shielded Paper Sleeve	.05	63-1842	22K Ohm Resistor 1/2W. - 20%	.17
S-52362	FM Antenna Coil Assembly	.60	63-1845	27K Ohm Resistor 1/2W. - 10%	.17
S-54511	Shielded Lead & Plug Assembly	1.25	63-1848	33K Ohm Resistor 1/2W. - 10%	.17
S-57222	Pointer Support Strip & Ring Assembly (2 required)	.15	63-1855	47K Ohm Resistor 1/2W. - 10% (2 req'd.)	.17
S-61505	AM Oscillator Coil Assembly	1.00	63-1856	47K Ohm Resistor 1/2W. - 20% (2 req'd.)	.17
S-62836	Drive Cord & Eyelet Assbly. - 25-3/8"	.15	63-1859	56K Ohm Resistor 1/2W. - 10% (used on S-64580)	.17
S-62887	FM Detector Coil Assembly	.60	63-1862	68K Ohm Resistor 1/2W. - 10%	.17
S-63622	Drive Cord & Eyelet Assembly - 7-7/8"	.15	63-1866	82K Ohm Resistor 1/2W. - 10%	.17
S-63623	Drive Cord & Eyelet Assbly. - 13-7/8"	.15	63-1869	100K Ohm Resistor 1/2W. - 10% (2 required)	.17
S-63625	Drive Cord & Eyelet Assbly. - 35-5/8"	.15	63-1880	180K Ohm Resistor 1/2W. - 10% (2 required)	.17
S-64123	Bracket & Pulley Assembly - L.H.	.50	63-1890	330K Ohm Resistor 1/2W. - 10%	.17
S-64124	Bracket & Pulley Assembly - R.H.	.50	63-1897	470K Ohm Resistor 1/2W. - 10%	.17
S-64572	Loop Loading Coil Assembly	1.00	63-1912	1 Megohm Resistor 1/2W. - 20% (6 required)	.17
S-64580	FM Oscillator Coil Assembly	1.00	63-1926	2.2 Megohm Resistor 1/2W. - 20% (3 required)	.17
CHASSIS 7LO1Z9			63-1939	4.7 Megohm Resistor 1/2W. - 10%	.17
12-3385	Tuner Bracket	.40	63-1940	4.7 Megohm Resistor 1/2W. - 20%	.17
12-4199	Support Bracket	.20	63-1954	10 Megohm Resistor 1/2W. - 20%	.17
17-170	Cable Clamp	.10	63-4199	2200 Ohm Resistor 1/4W. - 10%	.17
19-238	Coil Mtg. Clip (1 pt of ea. S-52362 & S-61505)	.10	63-4283	220K Ohm Resistor 1/4W. - 10%	.17
19-322	Coil Mtg. Clip (2 required)	.05	63-4519	2.7 Ohm Resistor 1/2W. - 10%	.17
22-3	.01 Mf Disc Capacitor - 500V. (14 required)	.30	63-4851	125 Ohm Resistor 4W. - 10%	.65
22-5	100 Pf Disc Capacitor - 500V. (2 required)	.25	63-4880	Potentiometer	1.40
22-9	100 Pf Disc Capacitor - 500V.	.25	76-1398	Drive Shaft	1.00
22-13	.0033 Mf Disc Capacitor - 500v.	.25	76-1399	Extension Shaft	.25
22-14	.0047 Mf Disc Capacitor - 500V.	.25	76-1403	Guide Shaft	.10
22-16	470 Pf Disc Capacitor - 500V. (2 req'd.)	.25	78-1099	Three Contact Socket	.20
22-18	.0022 Mf Disc Capacitor - 500V.	.25	78-1314	Wafer Socket - 12AU6 - 12BA6 (3 required)	.30
22-1888	.001 Mf Ceramic Capacitor - 500V. (used on S-62887)	.25	78-1318	Wafer Socket - 12BE6	.35
22-2569	.047 Mf Capacitor - 600V. (2 required)	.40	78-1319	Noval Wafer Socket - 19EA8	.35
22-3318	.001 Mf Disc Capacitor - 25V.	.25	78-1591	Noval Wafer Socket - 12GQ7	.35
22-3456	2 x 12 Pf Disc Capacitor - 500V. (used on S-64580)	.30	78-1595	Wafer Socket - 12DT8	.35
22-3537	.047 Mf Capacitor - 200V.	.30	79-174-12	#18 Sleeving - Yellow (8 required)	.03
22-3591	.1 Mf Capacitor - 200V.	.30	79-205-8	#16 Sleeving - Yellow	.03
22-3621	22 Pf Disc Capacitor - 500V. (used on S-64580)	.25	80-209	Drive Cord Tension Spring	.10
22-3626	.22 Mf Capacitor - 100V.	.50	80-1140	Drive Cord Tension Spring	.10
22-3627	.047 Mf Capacitor - 100V.	.35	80-1467	Retaining Spring	.05
22-3675	10 Pf Disc Capacitor - 500V. (used on S-64580)	.25	80-1468	Grounding Spring	.05
22-3774	2 Pf Disc Capacitor - 500V.	.25	83-1693	Two Lug Terminal Strip	.10
22-3961	Variable Capacitor	3.75	83-3265	Five Lug Terminal Strip (part of S-64261)	.10
22-4613	Feed Thru Capacitor (5 required)	.10	83-3561	Cable Retaining Strip	.05
22-5325	26 Pf Disc Capacitor	.35	83-3652	Three Lug Terminal Strip	.05
24-1239	Tuner Cover	.35	83-3843	Twelve Lug Terminal Strip	.35
26-1321	Dial Scale	.35	83-3862	Pointer Support Strip (1 part of ea. S-57222)	.20
43-519	Socket Contact Housing (used on 52-996)	.20	83-4086	Insulating Strip	.03
43-570	Socket Contact Housing	.45	83-4125	Two Lug Terminal Strip	.10
52-996	Four Conductor Cable	.65	83-4751	Special Terminal Strip	.15
52-1242	Two Conductor Shielded Lead	.85	83-5540	Insulating Strip (used on 85-907)	.10
			83-5727	Insulating Strip	.10
			83-5785	Single Lug Terminal Strip	.10
			85-907	Bandswitch	7.05
			86-334	Socket Terminal (4 used on 52-996)	.10
			86-370	Socket Terminal (5 required)	.03
			93-993	Bakelite Washer (used on 85-907)	.03
			94-613	Iron Core Bushing (2 required)	.10

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PART NO.	DESCRIPTION	PRICE	PART NO.	DESCRIPTION	PRICE
CHASSIS 8NT02 (Cont'd.)			83-5277	Insulating Strip (1 pt. of ea. 121-418)	.03
121-433	Transistor - Pre-Amp (2 required)	.90	83-5577	Terminal Board	
121-434	Transistor - Driver (2 required)	.90	86-199	Shakeproof Terminal (1 used on Chassis Base, & 1 pt. of ea. 121-418)	.03
199-350	Spacer Sleeve (1 used on ea. 94-1171)	.03	86-334	Connector Terminal (3 used on 52-1270)	.10
199-397	Shielded Paper Sleeve	.05	93-415	#6 External Shakeproof Lockwasher (2 required)	.03
212-71	Rectifier (3 required)	1.25	93-542	Shoulder Washer (2 pt. of ea. 121-148)	
or			95-2386	Power Transformer	
212-27	Rectifier (3 required)	2.00	95-2388	Driver Transformer (2 required)	
S-59959	A.C. Plug & Bracket Assembly	.40	114-58	6-32 x 3/8 Hex Hd. Mach. Screw - Nickel Plate (2 mt. ea. 121-418)	.03
S-63542	Phono Input Cable Assembly	1.25	114-801	8-18 x 5/16 x 1/4 Hex Hd. Self-Tap Screw - Stat. Bronze (1 used on Chassis Base, & 1 used on ea. 95-2388)	.03
CHASSIS 10NT01			121-417	Transistor - Driver (2 required)	
11-210	A.C. Line Cord & Plug		121-418	Transistor - Power Output (4 required)	
17-181	Cable Clamp	.03	121-433	Transistor - Pre-Amp (4 required)	
22-3034	.05 Mf Disc Capacitor - 25V. (2 req'd.)	.45	212-71	Silicon Rectifier (2 required)	
22-3393	.01 Mf Disc Capacitor - 25V. (4 req'd.)	.40	or		
22-3615	1 Mf Electrolytic Capacitor - 25V. (2 required)	1.25	212-27	Silicon Rectifier (2 required)	
22-3654	.47 Pf Disc Capacitor - 3V. (2 req'd.)	.45	CHASSIS 10L02Z		
22-3896	5 Mf Electrolytic Capacitor - 25V. (2 required)	1.00	12-3385	Tuner Bracket	.40
22-4628	2 x 100 Mf Electrolytic Capacitor - 15V.	1.60	12-3799	Coil Support Bracket	.25
22-5167	1000 Mf Electrolytic Capacitor - 30V.	3.20	12-3842	Antenna Mounting Bracket (2 required)	.25
22-5168	300 Mf Electrolytic Capacitor - 25V. (2 required)	1.35	12-4008	Dial Light Mounting Bracket	1.25
22-5251	.15 Mf Disc Capacitor - 12V. (2 used for Bass Control)		17-135	Cable Clamp	.20
22-5257	.1 Mf Disc Capacitor - 12V. (2 used on Chassis, & 2 used on ea. 63-6480)		19-238	Coil Mounting Clip (1 pt. of ea. S-52362 & S-50127)	.10
22-5258	.22 Mf Disc Capacitor - 12V. (2 req'd.)		19-322	Coil Mounting Clip (2 used on 12-3799)	.05
22-5259	.0082 Mf Disc Capacitor - 500V. (2 required)		22-3	.01 Mf Disc Capacitor - 500V. (11 req'd.)	.30
22-5260	2 x 500 Mf Electrolytic Capacitor - 25V.		22-5	100 Pf Disc Capacitor - 500V. (2 req'd.)	.25
23-23	Wire Connector (3 required)	.10	22-9	100 Pf Disc Capacitor - 500V.	.25
43-519	Socket Housing (Male)	.20	22-13	.0033 Mf Disc Capacitor - 500V. (3 req'd.)	.25
52-1223	Two Conductor Shielded Lead		22-14	.0047 Mf Disc Capacitor - 500V. (5 req'd.)	.25
52-1270	Three Conductor Cable		22-16	470 Pf Disc Capacitor - 500V.	.25
54-139	3/8-32 x 9/16 Palnut - Cadmium (mts. 63-6481)	.03	22-18	.0022 Mf Disc Capacitor - 500V. (3 req'd.)	.25
54-271	6-32 x 9/16 Palnut - Cadmium (1 used on ea. 114-58)	.03	22-1813	.022 Mf Capacitor - 600V.	.30
58-214	Single Prong Plug (2 used on 52-1223)	.10	22-1852	7.5 Pf Ceramic Capacitor - 500V.	.25
63-1736	68 Ohm Resistor 1/2W. - 10% (3 req'd.)	.17	22-1888	.001 Mf Ceramic Capacitor - 500V. (used on S-62887)	.25
63-1747	120 Ohm Resistor 1/2W. - 10% (2 req'd.)	.17	22-2514	9 Pf Disc Capacitor - 500V. (used on S-62889)	.25
63-1761	270 Ohm Resistor 1/2W. - 10% (2 req'd.)	.17	22-2569	.047 Mf Capacitor - 600V. (2 required)	.40
63-1772	470 Ohm Resistor 1/2W. - 20% (2 req'd.)	.17	22-2655	.01 Mf Disc Capacitor - 1400V. (used on 63-5232)	.50
63-1782	820 Ohm Resistor 1/2W. - 10% (2 used for Bass Control)	.17	22-2732	.001 Mf Feed - Thru Capacitor - 500V. (5 required)	.30
63-1796	1800 Ohm Resistor 1/2W. - 10% (2 required)	.17	22-3318	.001 Mf Disc Capacitor - 25V	.25
63-1799	2200 Ohm Resistor 1/2W. - 10% (2 required)	.17	22-3366	1000 Pf Mica Capacitor - 500V.	.40
63-1800	2200 Ohm Resistor 1/2W. - 20% (2 required)	.17	22-3456	2 x 12 Pf Disc Capacitor - 500V. (used on S-62889)	.30
63-1803	2700 Ohm Resistor 1/2W. - 10% (2 used on Chassis, & 2 used for Treble Control)	.17	22-3577	.1 Mf Capacitor - 600V.	.40
63-1813	4700 Ohm Resistor 1/2W. - 10% (2 req'd.)	.17	22-3621	22 Pf Disc Capacitor - 500V. (used on S-62889)	.25
63-1849	33K Ohm Resistor 1/2W. - 20% (2 req'd.)	.17	22-3626	.22 Mf Capacitor - 100V.	.50
63-1866	82K Ohm Resistor 1/2W. - 10% (2 req'd.)	.17	22-3627	.047 Mf Capacitor - 100V. (2 required)	.35
63-1873	120K Ohm Resistor 1/2W. - 10% (2 required)	.17	22-3694	.1 Mf Capacitor - 100V.	.35
63-1876	150K Ohm Resistor 1/2W. - 10% (2 required)	.17	22-3774	2 Pf Disc Capacitor - 500V.	.25
63-1897	470 Ohm Resistor 1/2W. - 10% (2 req'd.)	.17	22-3809	Variable Capacitor	3.75
63-1911	1 Megohm Resistor 1/2W. - 10% (2 req'd.)	.17	22-3859	Electrolytic 10/25 100/50	2.25
63-4533	5.6 Ohm Resistor 1/2W. - 10% (4 req'd.)	.17	22-3971	Electrolytic 60/160 250/150 300/200	5.50
63-5944	1 Ohm Resistor 1W. - 10% (4 required)		22-5325	26 Pf Disc Capacitor - 500V.	
63-6021	68 Ohm Resistor 1W. - 10%	.20	24-1068	Tuner Cover	.50
63-6052	390 Ohm Resistor 1W. - 10% (2 required)	.25	26-966	Dial Scale	6.25
63-6480	Dual Tone Control (2 required)		44-46	Dual Connector Jack (pt. of S-59722)	.20
63-6481	Dual Loudness Control		54-139	3/8-32 x 9/16 Palnut - Cadmium (1 used on ea. 63-5232, 63-5234, 63-5235 & 85-803)	.03
83-3265	Five Lug Terminal Strip	.10	56-426	Roll Pin (4 required)	.05
83-3652	Three Lug Terminal Strip	.05	56-512	Roll Pin (2 required)	.03
			57-5077	Dial Background Plate	1.55
			58-209	A.C. Plug (pt. of S-66709)	.35

PART NO.	DESCRIPTION	PRICE	PART NO.	DESCRIPTION	PRICE
CHASSIS 10LO2Z (Cont'd.)			86-255	Spade Terminal	.03
58-214	Single Prong Plug (2 pt. of S-54511)	.10	86-312	Terminal	.03
59-614	Dial Pointer (2 required)	.25	86-328	Wire Retaining Terminal (2 required)	.03
63-1744	100 Ohm Resistor 1/2W. - 20% (3 req'd.)	.17	86-413	Terminal & Screw (2 used on S-63474)	.10
63-1772	470 Ohm Resistor 1/2W. - 20% (2 req'd.)	.17	90-665	Spacer (2 used on S-59722)	.03
63-1779	680 Ohm Resistor 1/2W. - 20% (2 req'd.)	.17	90-667	Spacer (2 used on 63-3252)	.03
63-1786	1000 Ohm Resistor 1/2W. - 20% (3 req'd.)	.17	93-993	Bakelite Washer (1 used on ea. 63-5232 & 85-803)	.03
63-1796	1800 Ohm Resistor 1/2W. - 10%	.17	93-1183	Fibre Washer (2 used on ea. 78-1156)	.03
63-1799	2200 Ohm Resistor 1/2W. - 10%	.17	94-613	Iron Core Bushing (2 used on 12-3385)	.10
63-1807	3300 Ohm Resistor 1/2W. - 20%	.17	94-1274	Nylon Bushing (used on S-66709)	.10
63-1835	15K Ohm Resistor 1/2W. - 20%	.17	95-1505	2nd I.F. Transformer (AM)	2.50
63-1838	18K Ohm Resistor 1/2W. - 10%	.17	95-1718	1st I.F. Transformer (AM)	2.50
63-1842	22K Ohm Resistor 1/2W. - 20%	.17	95-1866	Discriminator Transformer	2.50
63-1848	33K Ohm Resistor 1/2W. - 10%	.17	95-1919	Limiter & 2nd I.F. Transformer (FM) (2 required)	2.50
63-1852	39K Ohm Resistor 1/2W. - 10%	.17	95-2073	Input Coil	2.50
63-1855	47K Ohm Resistor 1/2W. - 10%	.17	95-2076	Doubler Coil	4.50
63-1856	47K Ohm Resistor 1/2W. - 20% (2 req'd.)	.17	95-2077	Detector Coil	3.00
63-1859	56K Ohm Resistor 1/2W. - 10% (used on S-62889)	.17	95-2078	Trap Coil	2.50
63-1862	68K Ohm Resistor 1/2W. - 10%	.17	95-2120	1st I.F. Transformer (FM)	2.50
63-1866	82K Ohm Resistor 1/2W. - 10% (3 req'd.)	.17	95-2143	Audio Output Transformer	3.50
63-1869	100K Ohm Resistor 1/2W.	.17	95-2229	Autofomer	2.00
63-1870	100K Ohm Resistor 1/2W. - 20% (2 req'd.)	.17	95-2232	Audio Output Transformer	2.55
63-1880	180K Ohm Resistor 1/2W. - 10% (2 req'd.)	.17	97-607	Chassis Mounting Stud (4 required)	.10
63-1891	330K Ohm Resistor 1/2W. - 20% (2 req'd.)	.17	100-249	Pilot Light Bulb (2 required)	.18
63-1894	390K Ohm Resistor 1/2W. 10% (2 req'd.)	.17	103-23	Crystal Diode (2 required)	.75
63-1897	470K Ohm Resistor 1/2W. - 10%	.17	103-34	Crystal Diode (2 required)	1.35
63-1912	1 Megohm Resistor 1/2W. - 20% (5 req'd.)	.17	103-47	Silicon Diode	3.75
63-1926	2.2 Megohm Resistor 1/2W. - 20% (4 required)	.17	105-42	R/C Network	.50
63-1939	4.7 Megohm Resistor 1/2W. - 10%	.17	105-78	Integnet	1.00
63-1940	4.7 Megohm Resistor 1/2W. - 20%	.17	105-79	Integnet (used on S-52362)	.50
63-1954	10 Megohm Resistor 1/2W. - 20%	.17	112-1608	8-18 x 5/16 Phillips Pan Hd. Self-Tap Screw - Black Oxide (2 used on 12-4008)	.03
63-3983	33 Ohm Resistor 5W. - 10%	.75	113-26	6-32 x 1/4 x 1/4 Hex Hd. Machine Screw - External Lockwasher (2 used on 12-3799)	.03
63-4199	2200 Ohm Resistor 1/4W. - 10%	.17	113-160	6-32 x 11/16 x 1/4 Hex Hd. Machine Screw - Cadmium - Internal Lockwasher (2 used on 63-5232)	.03
63-4519	2.7 Ohm Resistor 1/2W. - 10%	.17	114-26	8-18 x 1/4 x 1/4 Hex Hd. Self-Tap Screw - Stat. Bronze (2 used on 126-1074)	.03
63-4828	130 Ohm Resistor 4W. - 10%	.65	114-352	6-20 x 7/8 x 1/4 Hex Hd. Self-Tap Screw Stat. Bronze (2 used on S-59722)	.03
63-4880	Potentiometer	1.40	114-594	8-18 x 3/8 Hex Hd. Self-Tap Screw - Stat. Bronze - Flat Washer Attached (2 used on S-63474)	.03
63-5232	Dual Loudness Control	3.50	114-801	8-18 x 5/16 x 1/4 Hex Hd. Self-Tap Screw - Stat. Bronze (2 used on ea. S-63814, S-63815, & S-66709, 12-3842, 95-2232 & 95-2143 & 4 used on 57-4644)	.03
63-5234	Dual Bass Tone Control	3.00	125-26	Rubber Grommet (2 used on ea. 78-1156)	.03
63-5235	Dual Treble Tone Control	3.00	126-937	Tube Shield & Base	.10
63-5243	Fusing Type Resistor	.50	126-1065	Shield	.10
63-5245	110 Ohm Resistor 3W. - 10%	.45	126-1074	Chassis Heat Shield	.15
63-5655	470 Ohm Resistor 2W. - 20%	.34	149-211	Iron Core (pt. of S-50127)	.10
63-6007	33 Ohm Resistor 1W. 10% (2 required)	.25	149-335	Iron Core & Spring (used on 12-3385)	.25
63-6052	330 Ohm Resistor 1W. - 10% (2 required)	.25	149-336	Iron Core & Spring (used on 12-3385)	.25
76-1141	Guide Shaft	.10	188-232	Clamping Ring (2 required)	.03
76-1399	Extension Shaft	.25	199-396	Shielded Paper Sleeve	.05
76-1418	Drive Shaft	1.00	212-27	Silicon Rectifier	2.00
78-1156	Molded Socket (7695) (2 required)	.25	S-50127	AM Oscillator Coil Assembly	1.25
78-1314	Wafer Socket (12AU6-12BA6) (3 req'd.)	.30	S-52362	FM Antenna Coil Assembly	.60
78-1319	Noval Wafer Socket (19EA8-19GQ7) (2 required)	.35	S-54511	Shielded Lead & Plug Assembly	1.25
78-1357	Wafer Socket (12BE6)	.35	S-59541	Drive Cord & Eyelet Assembly	.15
78-1365	Noval Wafer Socket (12DT8)	.35	S-59543	Drive Cord & Eyelet Assembly	.15
78-1397	Pilot Light Socket & Wire	.50	S-59722	Connector Jack & Mounting Strip Assembly	.40
78-1562	Noval Wafer Socket (12AX7A)	.35	S-61711	Pointer Support Strip & Ring Assbly.	.10
79-174-12	#18 Sleeving - Yellow (9 required)	.03	S-62887	Detector Coil Assembly (FM)	.60
79-205-8	#16 Sleeving - Yellow	.03	S-62889	Oscillator Coil Assembly (FM)	1.00
80-1188	Tension Spring (Gang)	.10			
80-1467	Retaining Spring	.05			
80-1468	Grounding Spring	.05			
80-1718	Tension Spring (Pointer)	.15			
80-1763	Retaining Spring (1 pt. of S-61711)	.03			
83-2715	Three Lug Terminal Strip	.05			
83-3265	Five Lug Terminal Strip	.10			
83-3670	Six Lug Terminal Strip	.15			
83-3671	Five Lug Terminal Strip	.15			
83-3674	Seven Lug Terminal Strip (1 required)	.20			
83-3676	Four Lug Terminal Strip (3 required)	.10			
83-3889	Single Lug Terminal Strip	.05			
83-4764	Six Lug Terminal Strip (pt. of S-66709)	.20			
83-5540	Insulating Strip (1 used on ea. 63-5232 & 85-803)	.10			
85-803	Bandswitch	4.50			

PART NO.	DESCRIPTION	PRICE
CHASSIS 10LO2Z (Cont'd)		
S-63474	Wavemagnet Assembly	1.50
S-63489	Drive Cord & Eyelet Assbly. (Pointer)	.15
S-63814	Bracket & Pulley Assembly (L.H.)	.35
S-63815	Bracket & Pulley Assembly (R.H.)	.55
S-65475	Record Changer Power Cable Assbly.	1.25
S-66709	A.C. Plug Mounting Bracket Assbly.	.70
S-66710	Drive Cord & Eyelet Assbly. (Pointer)	.45

CHASSIS 18XT20

11-106	Line Cord	1.00
12-4009	Tuner Bracket	.36
12-4409	Switch Mtg. Bracket	
12-4411	Antenna Mtg. Bracket	
19-238	Coil Mtg. Clip (part of S-66580)	.10
19-322	Coil Mtg. Clip (3 required)	.05
20-1256	Trap Coil	.50
20-1422	Trap Coil	
22-3	.01 Mf Disc Capacitor - 500V. (2 req'd.)	.30
or		.10
22-4617	.01 Mf Disc Capacitor - 500V. (2 req'd.)	.10
22-13	.0033 Mf Disc Capacitor - 500V.	.25
22-14	.0047 Mf Disc Capacitor - 500V. (2 req'd.)	.25
22-18	.0022 Mf Disc Capacitor - 500V. (2 req'd.)	.25
22-2428	1.8 Pf Gimmick Capacitor (2 required)	.25
22-2729	.001 Mf Disc Capacitor - 25V.	.25
22-3010	.01 Mf Disc Capacitor - 25V. (2 required)	.45
22-3034	.05 Mf Disc Capacitor - 25V. (15 req'd.)	.45
22-3177	390 Pf Disc Capacitor (3 required)	.25
22-3400	3.9 Pf Gimmick Capacitor	.45
22-3443	.47 Mf Capacitor - 50V.	.60
22-3448	10 Mf Electrolytic Capacitor - 15V.	1.00
22-3550	3.3 Pf Gimmick Capacitor	
22-3588	.47 Mf Disc Capacitor - 12V. (2 required)	.30
22-3621	22 Pf Disc Capacitor	.25
22-3630	.068 Mf Mylar Capacitor - 50V. (2 req'd.)	.30
22-3644	820 Pf Mica Capacitor - 100V. (2 req'd.)	.75
22-3645	1000 Pf Mica Capacitor - 100V.	.75
22-3675	10 Pf Disc Capacitor	.25
22-3710	.22 Mf Capacitor - 50V. (2 required)	.50
22-3896	5Mf Electrolytic Capacitor - 25V. (7 required)	1.00
22-3973	100 Mf Electrolytic Capacitor - 25V.	1.00
22-4523	1.1 Pf Gimmick Capacitor (5 required)	.25
22-4613	Feed-Thru Capacitor (5 required)	.10
22-4620	Electrolytic Capacitor	2.85
22-4628	2 x 100 Mf Electrolytic Capacitor	1.60
22-4674	Two Section Variable Capacitor	
22-5018	.47 Mf Capacitor - 50V.	.60
22-5021	.0068 Mf Disc Capacitor - 1KV. (2 req'd.)	.30
22-5037	.005 Mf Disc Capacitor - 25V. (3 req'd.)	
22-5130	8 Pf Disc Capacitor	.15
22-5167	1000 Electrolytic Capacitor - 30V.	3.20
22-5175	200 Mf Electrolytic Capacitor (2 req'd.)	1.05
22-5182	.033 Mf Capacitor - 50V. (2 required)	
22-5188	.1 Mf Capacitor - 50V.	.35
22-5321	36 Pf Disc Capacitor	
24-1473	Tuner Cover	
43-519	Contact Housing	.20
46-5139	Push Button, Stereo-Monaural	
46-5155	Band Switch Knob	
46-5156	Tone Control Knob (2 required)	
46-5157	Tuning Knob	
46-5158	Dual Loudness Control Knob	
46-5217	Balance Control Knob	
52-1241	Three Conductor Cable	.45
52-1242	Two Conductor Shielded Lead	.85
54-139	3/8-32 x 9/16 Palnut - Cadmium (1 used on ea. 63-6853, 63-6854, 63-6855 & 85-919)	.03
54-549	Tinnerman Speed Nut (6 used on S-73277)	.03
54-633	Transistor Socket Retaining Nut (1 used on ea. 78-1442, 78-1621 & 78-1677)	.10

PART NO.	DESCRIPTION	PRICE
56-426	Roll Pin (4 required)	.05
56-512	Roll Pin (2 required)	.03
58-214	Single Prong Plug (2 required)	.70
59-784	Dial Pointer	.25
63-1701	10 Ohm Resistor - 1/2W. - 10%	.17
63-1719	27 Ohm Resistor - 1/2W. - 10%	.17
63-1736	68 Ohm Resistor - 1/2W. - 10%	
63-1743	100 Ohm Resistor - 1/2W. - 10% (4 req'd)	
63-1754	180 Ohm Resistor - 1/2W. - 10% (2 req'd)	.17
63-1761	270 Ohm Resistor - 1/2W. - 10% (2 req'd)	.17
63-1764	330 Ohm Resistor - 1/2W. - 10% (2 req'd)	.17
63-1768	390 Ohm Resistor - 1/2W. - 10% (2 req'd)	.17
63-1771	470 Ohm Resistor - 1/2W. - 10% (9 req'd)	.17
63-1778	680 Ohm Resistor - 1/2W. - 10% (2 req'd)	.17
63-1782	820 Ohm Resistor - 1/2W. - 10% (3 req'd)	.17
63-1785	1K Ohm Resistor - 1/2W. - 10% (6 req'd)	
63-1792	1500 Ohm Resistor - 1/2W. - 10% (4 req'd)	.17
63-1796	1800 Ohm Resistor - 1/2W. - 10% (2 req'd)	.17
63-1799	2200 Ohm Resistor - 1/2W. - 10% (2 req'd)	.17
63-1803	2700 Ohm Resistor - 1/2W. - 10% (2 req'd)	
63-1813	4700 Ohm Resistor - 1/2W. - 10% (5 req'd)	.17
63-1817	5600 Ohm Resistor - 1/2W. - 10%	
63-1820	6800 Ohm Resistor - 1/2W. - 10% (4 req'd)	
63-1824	8200 Ohm Resistor - 1/2W. - 10% (2 req'd)	
63-1827	10K Ohm Resistor - 1/2W. - 10%	
68-1834	15K Ohm Resistor - 1/2W. - 10% (4 req'd)	.17
63-1841	22K Ohm Resistor - 1/2W. - 10%	
63-1845	27K Ohm Resistor - 1/2W. - 10%	.17
63-1848	33K Ohm Resistor - 1/2W. - 10% (3 req'd)	
63-1855	47K Ohm Resistor - 1/2W. - 10% (6 req'd)	
63-1859	56K Ohm Resistor - 1/2W. - 10%	
63-1869	100K Ohm Resistor - 1/2W. - 10% (5 req'd)	
63-1880	180K Ohm Resistor - 1/2W. - 10% (4 req'd)	
63-1883	220K Ohm Resistor - 1/2W. - 10% (2 req'd)	.17
63-1897	470K Ohm Resistor - 1/2W. - 10%	.17
63-1912	1 Megohm Resistor - 1/2W. - 20%	.17
63-4143	100 Ohm Resistor - 1/4W. - 10%	.17
63-4196	1800 Ohm Resistor - 1/4W. - 10%	.17
63-4199	2200 Ohm Resistor - 1/4W. - 10%	.17
63-4213	4700 Ohm Resistor - 1/4W. - 10%	.17
63-4231	12K Ohm Resistor - 1/4W. - 10%	.17
63-4245	27K Ohm Resistor - 1/4W. - 10%	.17
63-4512	1.8 Ohm Resistor - 1/2W. - 10% (4 req'd)	.15
63-4526	3.9 Ohm Resistor - 1/2W. - 10% (4 req'd)	.15
63-5192	Potentiometer	1.40
63-5614	47 Ohm Resistor - 2W. - 10%	
63-6049	330 Ohm Resistor - 1W. - 10% (2 req'd.)	.20
63-6495	Potentiometer	
63-6853	Dual Treble Control	
63-6854	Dual Loudness Control	
63-6855	Dual Bass Control	
76-1403	Tuner Guide Shaft	.10
78-1378	Four Contact Transistor Socket (2 req'd)	.40
78-1442	Transistor Socket	.30
78-1488	Dual Light Socket & Wire	
78-1489	Stereo Indicator Light Socket & Wire	
78-1621	Three Contact Transistor Socket (4 required)	.20
78-1677	Four Contact Transistor Socket (3 req'd)	.40
79-209-8	#18 Sleeving - Yellow - 1" (part of 121-403)	.03
79-210-8	#22 Sleeving - Green - 1" (part of 121-403)	.03
79-211-8	#22 Sleeving - Blue - 1" (part of 121-403)	.03
80-209	Drive Cord Tension Spring	.10
80-1140	Drive Cord Tension Spring	.10
80-1467	Shaft Retaining Spring	.05
80-1468	Grounding Spring	.05
80-1763	Retaining Spring (2 required)	.03
80-1914	Ground Spring	
83-3561	Cable Retaining Strip	.05
83-5170	Three Lug Terminal Strip	.10
83-5171	Insulating Strip	.03
83-5287	Ten Lug Terminal Strip	.25
83-5307	Pointer Support Strip (2 required)	.15

PART NO.	DESCRIPTION	PRICE	PART NO.	DESCRIPTION	PRICE
CHASSIS 18XT20 (Cont'd.)			S-73277	Escutcheon Assembly	
83-5326	Twenty-Four Lug Terminal Strip	.65	S-73305	Drive Cord & Eyelet Assembly	
83-5327	Fifty-Two Lug Terminal Strip	1.20	S-73306	Drive Cord & Eyelet Assembly	
83-5328	Eleven Lug Terminal Strip	.35	S-73307	Drive Cord & Eyelet Assembly	
83-5386	Nine Lug Terminal Strip	.20	S-73308	Drive Cord & Eyelet Assembly	
83-5430	Nine Lug Terminal Strip	.20			
83-5431	Insulating Strip	.03	CHASSIS 18XT20Z		
83-5748	Rubber Channel Strip (2 required)		46-5140	Push Button, Stereo-Monaural	
83-5749	Rubber Channel Strip (2 required)		46-5170	Band Switch Knob	
83-5756	Trim Strip (part of S-73277)		46-5171	Tone Control Knob (2 required)	
83-5771	Five Lug Terminal Strip		46-5172	Dual Loudness Control Knob	
83-5772	Insulating Strip		46-5218	Balance Control Knob	
83-5773	Three Lug Terminal Strip (2 required)		83-5757	Trip Strip (part of S-73304)	
83-5785	Single Lug Terminal Strip	.10	S-73303	Background Strip & Dial Scale Assbly.	
85-892	Stereo-Monaural Switch	1.80	S-73304	Escutcheon Assembly	
85-919	Five Position Bandswitch				
86-328	Wire Retaining Terminal (3 required)	.03	CHASSIS 20XT20		
86-334	Socket Terminal (3 required)	.10	11-106	Line Cord	1.00
86-388	Connector Terminal (2 required)	.05	12-4009	Tuner Bracket	.36
94-613	Iron Core Retaining Bushing (2 req'd.)	.10	12-4409	Switch Mtg. Bracket	
95-2233	1st I.F. Transformer (AM)	1.75	12-4411	Antenna Mtg. Bracket	
95-2234	2nd I.F. Transformer (AM)	1.70	19-238	Coil Mtg. Clip (part of S-66580)	.10
95-2236	1st I.F. Transformer (FM)	2.00	19-322	Coil Mtg. Clip (3 required)	.05
95-2313	Doudler Mixer Transformer	3.05	20-1256	Trap Coil	.50
95-2315	Input Mixer Transformer	3.05	20-1422	Trap Coil	
95-2316	Trap Coil Transformer	1.86	22-3	.01 Mf Disc Capacitor - 500V. (2 req'd.)	.30
95-2324	Ratio Detector Transformer	4.75	or		
95-2430	Driver Transformer (2 required)		22-4617	.01 Mf Disc Capacitor - 500V. (2 req'd.)	.10
95-2432	Power Transformer		22-13	.0033 Mf Disc Capacitor - 500V. (3 required)	.25
95-2436	3rd I.F. Transformer (AM)		22-14	.0047 Mf Disc Capacitor - 500V. (2 required)	.25
95-2437	2nd I.F. Transformer (FM)		22-2376	47 Pf Disc Capacitor - 500V. (2 req'd.)	.25
95-2438	3rd I.F. Transformer (FM)		22-2428	1.8 Pf Gimmick Capacitor (2 req'd.)	.25
95-2439	38 KC Transformer		22-2729	.001 Mf Disc Capacitor - 25V.	.25
100-249	Pilot Light Bulb (2 required)	.18	22-3010	.01 Mf Disc Capacitor - 25V. (2 req'd.)	.45
100-384	Stereo Indicator Bulb	1.30	22-3034	.05 Mf Disc Capacitor - 25V. (16 req'd.)	.45
103-23	Diode (5 required)	.75	22-3177	390 Pf Disc Capacitor - (3 required)	.25
103-39	Diode	3.00	22-3255	330 Pf Disc Capacitor - (2 required)	.25
103-74	Diode	.50	22-3400	3.9 Pf Gimmick Capacitor	.45
103-96	Diode	1.75	22-3415	.0068 Mf Disc Capacitor - 25V. (2 required)	
105-78	R/C Network	1.00	22-3443	.47 Mf Capacitor - 50V. (2 required)	.60
113-10	6-32 x 3/16 x 1/4 Hex Hd. Machine Screw - Cadmium - Int. Shakeproof Lockwasher (6 required)	.03	22-3448	10 Mf Electrolytic Capacitor - 15V.	1.00
114-77	6-20 x 5/16 x 1/4 Hex Hd. Self-Tap Screw - Stat. Bronze	.03	22-3550	3.3 Pf Gimmick Capacitor	
114-335	8-18 x 1/2 x 1/4 Hex Hd. Self-Tap Screw - Stat. Bronze (4 required)	.03	22-3599	.015 Mf Capacitor - 50V. - (2 required)	.30
114-801	8-18 x 5/16 x 1/4 Hex Hd. Self-Tap Screw - Stat. Bronze (19 required)	.03	22-3621	22 Pf Disc Capacitor	.25
121-348	Transistor (4 required)	1.10	22-3645	1000 Pf Mica Capacitor - 100V.	.75
121-381	Transistor	.90	22-3675	10 Pf Disc Capacitor	.25
121-383	Transistor	4.95	22-3687	1 Mf Electrolytic Capacitor - 50V. (6 required)	.90
121-403	Transistor (4 required)	1.65	22-3879	1000 Mf Electrolytic Capacitor - 50V.	4.15
121-414	Transistor	1.45	22-3896	5 Mf Electrolytic Capacitor - 25V. (3 required)	1.00
121-415	Transistor (2 required)	1.45	22-3973	100 Mf Electrolytic Capacitor - 25V.	1.00
121-428	Transistor	1.45	22-4523	1.1 Pf Gimmick Capacitor (2 required)	.25
121-433	Transistor (2 required)	.90	22-4613	Feed-Thru Capacitor (5 required)	.10
121-434	Transistor (2 required)	.90	22-4674	Two Section Variable Capacitor	
125-26	Rubber Grommet	.03	22-5012	.15 Mf Capacitor - 50V. (4 required)	.40
125-140	Strain Relief Grommet	.10	22-5056	.02 Mf Disc Capacitor - 25V. (2 req'd.)	.20
126-1207	Shield (FM Tuner)		22-5037	.005 Mf Disc Capacitor - 25V. (3 req'd.)	
149-211	Iron Core (part of S-66580)	.10	22-5130	8 Pf Disc Capacitor	.15
171-50	Stereo Lens		22-5167	1000 Mf Electrolytic Capacitor - 30V.	3.20
188-232	Clamping Ring	.03	22-5188	.1 Mf Capacitor - 50V.	.35
192-389	Dial Crystal		22-5249	.1 Mf Capacitor - 100V. (2 required)	.35
212-71	Rectifier (2 required)	1.25	22-5315	300 Mf Electrolytic Capacitor - 50V. (2 required)	
S-62887	FM Oscillator Coil Assembly	.60	22-5316	500 Mf Electrolytic Capacitor - 50V.	
S-66580	AM Oscillator Coil Assembly	1.55	22-5321	36 Pf Disc Capacitor	
S-68976	FM Detector Coil Assembly	.80	24-1473	Tuner Cover	
S-71997	FM Antenna Coil Assembly		43-519	Contact Housing	.20
S-73228	Chassis Mtg. Bracket Assembly - L.H.		46-5139	Push Button, Stereo-Monaural	
S-73229	Chassis Mtg. Bracket Assembly - R.H.		46-5155	Band Switch Knob	
S-73230	Control Panel Assembly		46-5157	Tuning Knob	
S-73248	Background Strip & Dial Scale Assbly.		46-5158	Loudness Control Knob	
S-73253	AM Antenna Assembly				

PART NO.	DESCRIPTION	PRICE	PART NO.	DESCRIPTION	PRICE
CHASSIS 20XT20 (Cont'd)			78-1442	Transistor Socket	.30
46-5215	Treble Tone Control Knob		78-1486	Transistor Socket (4 required)	
46-5216	Bass Tone Control Knob		78-1488	Dual Light Socket & Wire	
46-5217	Balance Control Knob		78-1489	Stereo Indicator Light Socket & Wire	
52-1212	Two Conductor Shielded Lead	.60	78-1621	Three Contact Transistor Socket (4 required)	.20
52-1213	Two Conductor Shielded Lead	.60	78-1677	Four Contact Transistor Socket (3 required)	.40
52-1241	Three Conductor Cable	.45	79-174-8	#18 Sleeving - Yellow - 1"	.03
52-1242	Two Conductor Shielded Lead	.85	80-209	Drive Cord Tension Spring	.10
54-139	3/8-32 x 9/16 Palnut - Cadmium (1 used on ea. 63-6854, 63-6861, 63-63-6889 & 85-920)	.03	80-1140	Drive Cord Tension Spring	.10
54-549	Tinnerman Speed Nut (6 used on S-73566)	.03	80-1467	Shaft Retaining Spring	.05
54-633	Transistor Socket Retaining Nut (1 used on ea. 78-1442, 78-1621 & 78-1677)	.10	80-1468	Grounding Spring	.05
56-426	Roll Pin (4 required)		80-1763	Retaining Spring (2 required)	.03
56-512	Roll Pin (2 required)	.03	80-1914	Ground Spring	
58-214	Single Prong Plug (2 required)	.70	83-3561	Cable Retaining Strip	.05
59-614	Dial Pointer	.25	83-3826	Two Lug Terminal Strip	
63-1701	10 Ohm Resistor - 1/2W. - 10% (2 req'd.)	.17	83-4194	Five Lug Terminal Strip	
63-1743	100 Ohm Resistor - 1/2W. - 10% (3 req'd.)	.17	83-5170	Three Lug Terminal Strip	.10
63-1747	120 Ohm Resistor - 1/2W. - 10% (2 req'd.)	.17	83-5171	Insulating Strip	.03
63-1754	180 Ohm Resistor - 1/2W. - 10% (2 req'd.)	.17	83-5277	Insulating Strip - Transistor (4 req'd.)	.03
63-1761	270 Ohm Resistor - 1/2W. - 10%	.17	83-5284	Five Lug Terminal Strip	.15
63-1764	330 Ohm Resistor - 1/2W. - 10% (2 req'd.)	.17	83-5286	Eight Lug Terminal Strip	.20
63-1768	390 Ohm Resistor - 1/2W. - 10% (2 req'd.)	.17	83-5287	Ten Lug Terminal Strip	.25
63-1771	470 Ohm Resistor - 1/2W. - 10% (9 req'd.)	.17	83-5291	Insulating Strip	.03
63-1778	680 Ohm Resistor - 1/2W. - 10% (2 req'd.)	.17	83-5307	Pointer Support Strip (2 required)	.15
63-1782	820 Ohm Resistor - 1/2W. - 10% (3 req'd.)	.17	83-5328	Eleven Lug Terminal Strip	.35
63-1785	1K Ohm Resistor - 1/2W. - 10% (4 req'd.)	.17	83-5386	Nine Lug Terminal Strip	.20
63-1792	1500 Ohm Resistor - 1/2W. - 10% (8 req'd.)	.17	83-5748	Rubber Channel Strip (2 required)	
63-1796	1800 Ohm Resistor - 1/2W. - 10%	.17	83-5749	Rubber Channel Strip (2 required)	
63-1799	2200 Ohm Resistor - 1/2W. - 10% (4 req'd.)	.17	83-5758	Trim Strip (part of S-73566)	
63-1806	3300 Ohm Resistor - 1/2W. - 10%	.17	83-5773	Three Lug Terminal Strip (2 required)	
63-1813	4700 Ohm Resistor - 1/2W. - 10% (5 req'd.)	.17	83-5785	Single Lug Terminal Strip	
63-1817	5600 Ohm Resistor - 1/2W. - 10%		83-5796	Four Lug Terminal Strip (2 required)	
63-1820	6800 Ohm Resistor - 1/2W. - 10% (2 req'd.)		83-5797	Insulating Strip (2 required)	
63-1824	8200 Ohm Resistor - 1/2W. - 10% (2 req'd.)		83-5798	Eleven Lug Terminal Strip	
63-1827	10K Ohm Resistor - 1/2W. - 10%		83-5799	Insulating Strip	
63-1831	12K Ohm Resistor - 1/2W. - 10% (2 req'd.)		83-5800	Six Lug Terminal Strip	
63-1834	15K Ohm Resistor - 1/2W. - 10% (7 req'd.)	.17	83-5801	Insulating Strip	
63-1841	22K Ohm Resistor - 1/2W. - 10%		83-5802	Fifty-Seven Lug Terminal Strip	
63-1845	27K Ohm Resistor - 1/2W. - 10%	.17	85-892	Stereo-Monaural Switch	1.80
63-1848	33K Ohm Resistor - 1/2W. - 10% (3 req'd.)		85-920	Six Position Bandswitch	
63-1852	39K Ohm Resistor - 1/2W. - 10% (2 req'd.)		86-328	Wire Retaining Terminal (3 required)	.03
63-1855	47K Ohm Resistor - 1/2W. - 10% (4 req'd.)		86-334	Socket Terminal (4 required)	.10
63-1869	100K Ohm Resistor - 1/2W. - 10% (3 req'd.)		86-388	Connector Terminal (2 required)	.05
63-1873	120K Ohm Resistor - 1/2W. - 10% (2 req'd.)	.17	94-613	Iron Core Retaining Bushing (2 req'd.)	.10
63-1880	180K Ohm Resistor - 1/2W. - 10% (2 req'd.)		95-2233	1st I.F. Transformer (AM)	1.75
63-1883	220K Ohm Resistor - 1/2W. - 10% (4 req'd.)	.17	95-2234	2nd I.F. Transformer (AM)	1.70
63-1897	470K Ohm Resistor - 1/2W. - 10%	.17	95-2236	1st I.F. Transformer (FM)	2.00
63-1911	1 Megohm Resistor - 1/2W. - 10%		95-2313	Doudler Mixer Transformer	3.05
63-1912	1 Megohm Resistor - 1/2W. - 20%	.17	95-2315	Input Mixer Transformer	3.05
63-4143	100 Ohm Resistor - 1/2W. - 10%	.17	95-2316	Trap Coil Transformer	1.86
63-4196	1800 Ohm Resistor - 1/4W. - 10%	.17	95-2324	Ratio Detector Transformer	4.75
63-4199	2200 Ohm Resistor - 1/4W. - 10%	.17	95-2430	Driver Transformer (2 required)	
63-4213	4700 Ohm Resistor - 1/4W. - 10%	.17	95-2432	Power Transformer	
63-4231	12K Ohm Resistor - 1/4W. - 10%	.17	95-2436	3rd I.F. Transformer (AM)	
63-4245	27K Ohm Resistor - 1/4W. - 10%	.17	95-2437	2nd I.F. Transformer (FM)	
63-4533	5.6 Ohm Resistor - 1/2W. - 10% (4 req'd.)	.17	95-2438	3rd I.F. Transformer (FM)	
63-5192	Potentiometer	1.40	95-2439	38KC Transformer	
63-5325	1 Ohm Resistor - 1W. - 10% (4 req'd.)	.25	100-249	Pilot Light Bulb (2 required)	.18
63-6010	39 Ohm Resistor - 1W. - 10%		100-384	Stereo Indicator Bulb	1.30
63-6045	270 Ohm Resistor - 1W. - 10%	.20	103-23	Diode (5 required)	.75
63-6059	560 Ohm Resistor - 1W. - 10% (2 req'd.)	.20	103-39	Diode	3.00
63-6066	820 Ohm Resistor - 1W. - 10% (3 req'd.)	.25	103-74	Diode	.50
63-6495	Potentiometer		103-96	Diode	1.75
63-6854	Dual Loudness Control		105-78	R/C Network	1.00
63-6821	Dual Treble Control		113-10	6-32 x 3/16 x 1/4 Hex Hd. Machine Screw - Cadmium Int. Shakeproof Lockwasher (3 join S-73228, 83-3561 & 22-4674 & 1 joins 22-4674 & 12-4411)	.03
63-6889	Dual Bass Control		114-77	6-20 x 5/16 x 1/4 Hex Hd. Self-Tap Screw - Stat. Bronze	
76-1403	Tuner Guide Shaft	.10	114-271	6-20 x 1/2 x 1/4 Hex Hd. Self-Tap Screw - Stat. Bronze (2 mt. ea. 121-418)	.03
76-1625	Tuning Shaft				
78-1347	Electrolytic Wafer Socket	.10			
78-1378	Four Contact Transistor Socket (2 req'd.)	.40			

PART NO.	DESCRIPTION	PRICE	PART NO.	DESCRIPTION	PRICE
CHASSIS 20XT20 (Cont'd)			22-2884	5 Mf Electrolytic Capacitor - (2 req'd.)	1.50
114-801	8-18 x 5/16 x 1/4 Hex Hd. Self-Tap Screw - Stat. Bronze (16 required)	.03	22-3010	.01 Mf Disc Capacitor - 25V. (6 req'd.)	.45
121-348	Transistor (4 required)	1.10	22-3034	.05 Mf Disc Capacitor - 500V. (22 req'd)	.45
121-381	Transistor	.90	22-3177	390 Pf Disc Capacitor (2 required)	.25
121-383	Transistor	4.95	22-3246	15 Pf Disc Capacitor	.25
121-403	Transistor (4 required)	1.65	22-3255	330 Pf Disc Capacitor - 500V. (2 req'd)	.25
121-414	Transistor	1.45	22-3362	560 Pf Disc Capacitor - 500V.	.25
121-415	Transistor (2 required)	1.45	22-3448	10 Mf Electrolytic Capacitor - 15V.	1.00
121-418	Transistor (4 required)	3.55	22-3467	12 Pf Disc Capacitor	.30
121-428	Transistor	1.45	22-3527	.22 Mf Disc Capacitor - 12V.	.40
121-430	Transistor (2 required)	1.10	22-3652	.1 Mf Disc Capacitor - 10V.	.30
121-442	Transistor (2 required)		22-3670	2 Mf Electrolytic Capacitor - 6V. (2 required)	1.00
125-26	Rubber Grommet	.03	22-3675	10 Pf Disc Capacitor - 500V.	.25
125-140	Strain Relief Grommet	.10	22-3687	1 Mf Electrolytic Capacitor - 50V. (4 required)	.90
126-1207	Shield (FM Tuner)		22-3826	.022 Mf Mylar Capacitor - 100V. (7 req'd)	.30
149-211	Iron Core (part of S-66580)	.10	22-3865	Three Section Variable Capacitor	4.50
171-50	Stereo Lens		22-3861	.0068 Mf Capacitor - 100V. (4 required)	.30
188-232	Clamping Ring	.03	22-3896	5 Mf Electrolytic Capacitor - 25V. (4 required)	1.00
192-389	Dia Crystal		22-4665	4300 Pf Capacitor - 100V.	1.20
212-71	Rectifier (2 required)	1.25	22-5012	.15 Mf Mylar Capacitor - 50V. (6 req'd.)	.40
S-62887	FM Oscillator Coil Assembly	.60	22-5018	.47 Mf Mylar Capacitor - 50V. (2 req'd.)	.60
S-66580	AM Oscillator Coil Assembly	1.55	22-5116	.01 Mf Disc Capacitor - 25V.	.20
S-68976	FM Detector Coil Assembly	.80	22-5168	300 Mf Electrolytic Capacitor - 25V.	1.35
S-71997	FM Antenna Coil Assembly		22-5184	.047 Mf Capacitor - 100V.	.30
S-73228	Chassis Mtg. Bracket Assembly - L.H.		24-1374	Balance & Volume Reflection Cover	.60
S-73229	Chassis Mtg. Bracket Assembly - R.H.		26-1304	FM Dial Scale	
S-73230	Control Panel Assembly		26-1305	AM Dial Scale	
S-73253	AM Antenna Assembly		26-1306	Log Scale	
S-73305	Drive Cord & Eyelet Assembly		43-570	6 Contact Housing - Male	.45
S-73306	Drive Cord & Eyelet Assembly		43-571	9 Contact Housing - Male	.30
S-73307	Drive Cord & Eyelet Assembly		46-5021	Push Button - On-Off	
S-73308	Drive Cord & Eyelet Assembly		46-5022	Push Button (8 required)	
S-73548	Heat Sink & Socket Assembly (2 req'd.)		46-5104	Balance Control Knob	
S-73555	Control Panel Assembly		46-5105	Loudness Control Knob	
S-73562	Tape Jack & Bracket Assembly		46-5106	Bass Control Knob	
S-73565	Background Strip & Dial Scale Assbly.		46-5107	Treble Control Knob	
S-73566	Escutcheon Assembly		46-5108	Presence Control Knob	
CHASSIS 20XT20Z			46-5109	Twining Control Knob	
46-5140	Push Button, Stereo-Monaural		52-1067	Two Conductor Shielded Lead - Bandswitch	.50
46-5170	Bandswitch Knob		52-1214	Two Conductor Shielded Lead (used on 43-571)	.65
46-5172	Loudness Control Knob		52-1215	Two Conductor Shielded Lead - Chassis	.45
46-5218	Balance Control Knob		52-1216	Two Conductor Shielded Lead - Chassis	.45
46-5223	Treble Tone Control Knob		54-139	3/8-32 x 9/16 Palnut - Cadmium (4 required)	.03
46-5224	Bass Tone Control Knob		54-541	Self Threading Palnut (5 used on S-73141)	.03
83-5759	Trim Strip (part of S-73681)		54-633	Transistor Socket Mtg. Nut (21 req'd.)	.10
S-73680	Background Strip & Dial Scale Assbly.		54-652	Self Threading Palnut (2 used on 24-1374)	.03
CHASSIS 24XT24			56-426	Roll Pin (2 used on Chassis)	.05
12-3685	Pulley Bearing Bracket	.50	56-512	Roll Pin (2 used on 94-1344)	.03
12-3686	Indicator Light Front Bracket (3 req'd.)	.10	57-4431	Indicator Light Backing Plate (3 req'd)	.05
12-3691	Switch Mtg. Bracket	.75	59-688	Dial Pointer	
12-4120	Variable Capacitor Mtg. Bracket	.55	61-256	Tone Control Pulley (3 required)	.30
12-4393	Tuning Meter Bracket		63-1701	10 Ohm Resistor - 1/2W. - 10% (3 req'd.)	.17
12-4394	Light Reflector Bracket		63-1733	56 Ohm Resistor - 1/2W. - 10%	.17
12-4395	Light Reflector Bracket		63-1743	100 Ohm Resistor - 1/2W. - 10% (3 req'd)	.17
17-149	Cable Clamp	.05	63-1757	220 Ohm Resistor - 1/2W. - 10% (2 req'd)	.17
19-238	Coil Mtg. Clip (1 part of ea. S-69165 & S-72828)	.10	63-1761	270 Ohm Resistor - 1/2W. - 10%	.17
19-464	Coil Mtg. Clip (part of S-72060)	.05	63-1764	330 Ohm Resistor - 1/2W. - 10% (4 req'd)	.17
19-518	Tuning Meter Mtg. Clip (2 required)		63-1766	360 Ohm Resistor - 1/2W. - 5% (2 req'd)	.34
20-1422	Peaking Coil		63-1771	470 Ohm Resistor - 1/2W. - 10% (7 req'd)	.17
20-2033	Peaking Coil (2 required)	.40	63-1775	560 Ohm Resistor - 1/2W. - 10% (2 req'd)	.17
22-9	100 Pf Disc Capacitor - 500V.	.25	63-1778	680 Ohm Resistor - 1/2W. - 10% (3 req'd)	.17
22-13	.0033 Mf Disc Capacitor - 500V.	.25	63-1782	820 Ohm Resistor - 1/2W. - 10% (3 req'd)	.17
22-17	.001 Mf Disc Capacitor - 1000V. (4 required)	.25	63-1785	1K Ohm Resistor - 1/2W. - 10% (11 req'd)	.17
22-18	.0022 Mf Disc Capacitor - 500V. (2 req'd)	.25	63-1789	1200 Ohm Resistor - 1/2W. - 10% (3 req'd)	.17
22-2374	6 Pf Disc Capacitor - 500V.	.25	63-1792	1500 Ohm Resistor - 1/2W. - 10%	.17
22-2434	2 Pf Gimmick Capacitor - 500V.	.25			
22-2720	1 Pf Gimmick Capacitor - 500V. (3 req'd)	.20			
22-2726	50 Mf Electrolytic Capacitor - 10V. (4 required)	1.50			
22-2729	.001 Mf Disc Capacitor - 25V.	.25			

PART NO.	DESCRIPTION	PRICE
CHASSIS 24XT24 (Cont'd.)		
63-1796	1800 Ohm Resistor-1/2W. -10% (2 req'd)	.17
63-1799	2200 Ohm Resistor-1/2W. -10% (5 req'd)	.17
63-1803	2700 Ohm Resistor-1/2W. -10%	.17
63-1806	3300 Ohm Resistor-1/2W. -10% (3 req'd)	.17
63-1810	3900 Ohm Resistor-1/2W. -10% (4 req'd)	.17
63-1813	4700 Ohm Resistor-1/2W. -10% (7 req'd)	.17
63-1817	5600 Ohm Resistor-1/2W. -10%	.17
63-1824	8200 Ohm Resistor-1/2W. -10%	.17
63-1825	9100 Ohm Resistor-1/2W. -5%	.34
63-1826	10K Ohm Resistor-1/2W. -5%	.34
63-1827	10K Ohm Resistor-1/2W. -10% (12 req'd)	.17
63-1831	12K Ohm Resistor-1/2W. -10%	.17
63-1834	15K Ohm Resistor-1/2W. -10% (4 req'd)	.17
63-1835	15K Ohm Resistor-1/2W. -20% (2 req'd)	.17
63-1841	22K Ohm Resistor-1/2W. -10% (4 req'd)	.17
63-1845	27K Ohm Resistor-1/2W. -10%	.17
63-1848	33K Ohm Resistor-1/2W. -10% (3 req'd)	.17
63-1852	39K Ohm Resistor-1/2W. -10% (2 req'd)	.17
63-1859	56K Ohm Resistor-1/2W. -10% (2 req'd)	.17
63-1862	68K Ohm Resistor-1/2W. -10% (4 req'd)	.17
63-1869	100K Ohm Resistor-1/2W. -10% (3 required)	.17
63-1873	120K Ohm Resistor-1/2W. -10% (2 required)	.17
63-1876	150K Ohm Resistor-1/2W. -10% (7 required)	.17
63-1897	470K Ohm Resistor-1/2W -10% (2 required)	.17
63-1925	2.2 Megohm Resistor-1/2W. -10%	.17
63-1960	15 Megohm Resistor-1/2W. -10% (2 required)	.17
63-5147	Dual Bass Control	2.75
63-5192	Potentiometer	1.40
63-5213	Dual Presence Control	3.00
63-5372	Dual Treble Control	3.00
63-5663	680 Ohm Resistor-2W. -10%	.30
63-6346	Dual Loudness Control	4.95
63-6376	Potentiometer	.60
63-6857	820 Ohm Resistor-4W. -10%	
78-1099	Three Contact Socket	.20
78-1416	Dial Light Socket & Wire	1.25
78-1444	Stereo Indicator Light Socket & Wire	.70
78-1445	Loudness Indicator Light Socket & Wire	.30
78-1569	Tone Indicator Light & Wire (3 req'd.)	.50
78-1621	Transistor Socket (14 required)	.20
78-1677	Transistor Socket (7 required)	.40
79-174-12	#18 Sleeving - Yellow (18 required)	.03
80-1188	Tension Spring - Gang	.10
80-1682	Glass Retaining Spring (5 required)	.05
80-1683	Tension Spring - Tone Pulley (3 req'd.)	.20
80-1718	Tension Spring - Pointer	.15
80-1763	Retaining Spring (1 pt. of ea. S-61711)	.03
83-1475	Cable Retaining Strip	.03
83-3641	Five Lug Terminal Strip	.10
83-4565	Rubber Channel Strip (2 required)	.05
83-4566	Rubber Channel Strip (2 required)	.20
83-4850	Five Contact Strip (pt. of S-69168)	.35
83-4997	Four Lug Terminal Strip	.10
83-5075	Two Lug Terminal Strip (3 required)	.05
83-5286	Eight Lug Terminal Strip	.20
83-5287	Ten Lug Terminal Strip	.25
83-5288	Thirteen Lug Terminal Strip (2 req'd.)	.35
83-5289	Fifteen Lug Terminal Strip	.40
83-5290	Nineteen Lug Terminal Strip (2 req'd)	.45
83-5399	Four Lug Terminal Strip (part of S-69169)	.20
83-5724	Reflector Strip	
83-5725	Function Trim Strip (pt. of S-73142)	
83-5726	Trim Strip (part of S-73141)	
83-5736	Three Lug Terminal Strip	
83-5737	Insulating Strip - Chassis	
83-5878	Insulating Strip - A.C. Switch	
85-863	Push Button Bandswitch	16.95

PART NO.	DESCRIPTION	PRICE
85-864	A.C. Switch	
86-344	Connector Terminal (used on 78-1416)	.03
86-388	Connector Terminal (2 used on 78-1444)	.05
86-390	Connector Terminal - Male (13 req'd.)	.03
93-1674	Diffusion Washer	.03
94-1344	Shaft Bushing - FM Tuner	.40
95-2313	Doubler Mixer Transformer	3.05
95-2314	Detector Mixer Transformer	2.90
95-2315	Input Mixer Transformer	3.05
95-2316	Trap Coil	1.86
95-2324	Ratio Detector Transformer	4.75
95-2325	1st I.F. Transformer - AM	1.80
95-2326	2nd I.F. Transformer - AM	1.95
95-2327	3rd I.F. Transformer - AM	2.65
95-2328	2nd I.F. Transformer - FM	1.90
95-2387	3rd & 4th I.F. Transformer - FM (2 required)	2.20
100-249	Pilot Light Bulb (9 required)	.18
100-384	Stereo Indicator Bulb	1.30
103-23	Diode (4 required)	.75
103-96	Diode	1.75
105-93	38KC Filter (2 required)	.80
113-8	6-32 x 1/4 x 1/4 Hex Hd. Machine Screw - Nickel Plate - Int. Shake-proof Lockwasher (3 used on 22-3865)	.03
114-26	8-18 x 14 x 14 Hex Hd. Self-Tap Screw - Stat. Bronze (2 required)	.03
114-344	6-20 x 1/4 x 1/4 Hex Hd. Self-Tap Screw - Stat. Bronze (13 required)	.03
114-390	8-18 x 7/16 x 1/4 Hex Hd. Self-Tap Screw - Stat. Bronze (5 join Chassis & S-73141)	.03
114-594	8-18 x 3/8 Hex Hd. Self-Tap Screw - Stat. Bronze - Flat Washer Attached (2 required)	.03
114-801	8-18 x 5/16 x 1/4 Hex Hd. Self-Tap S Screw - Stat. Bronze (20 required)	.03
114-804	8-18 x 1/2 Hex Hd. Self-Tap Screw - Stat. Bronze - Flat Washer Attached (4 required)	.03
121-273	Transistor - Pre-Amp (5 required)	.80
121-274	Transistor - Pre-Amp (2 required)	.80
121-333	Transistor (2 required)	.80
121-335	Transistor	1.50
121-347	Transistor	1.20
121-348	Transistor (4 required)	1.10
121-414	Transistor	1.45
121-415	Transistor (3 required)	1.45
121-437	Transistor (2 required)	
125-117	Rubber Grommet (4 required)	.03
126-1050	Tone Indicator Background Shield	.50
126-1091	Hum Shield	1.00
126-1204	Shield (used on Chassis)	
126-1216	Tone Indicator Shield (3 required)	
149-211	Iron Core (1 part of ea. S-69165 & S-72828)	.10
149-370	Iron Core (part of S-72060)	.15
171-46	Indicator Lens - Bass	
171-47	Indicator Lens - Treble	
171-48	Indicator Lens - Presence	
171-49	Indicator Lens - Stereo	
188-367	Clamping Ring (4 pt. of S-73142)	.03
192-320	Dial Crystal	.60
199-398	Shielded Paper Sleeve	
422-3	Tuning Meter	
S-61711	Pointer Support & Spring Assbly. (2 required)	.10
S-61714	Tone Indicator Mtg. Bracket Assbly.	1.50
S-61727	Drive Cord & Eyelet Assbly - Gang	.15
S-61728	Drive Cord & Eyelet Assbly - Gang	.15
S-61730	Drive Cord & Eyelet Assbly - Bass	.15
S-61731	Drive Cord & Eyelet Assbly - Presence	.15
S-69165	Detector Coil Assembly - AM	1.40

PART NO.	DESCRIPTION	PRICE	PART NO.	DESCRIPTION	PRICE
CHASSIS 24XT24 (Cont(d.))			46-4491	Push Button - Monaural & On-Off (2 required)	1.10
S-69168	Escutcheon Mtg. Bracket Assembly - R.H.	2.45	46-5109	Tuning Knob	
S-69169	Escutcheon Mtg. Bracket Assembly - L.H.	2.10	46-5193	Tone Control Knob - Bass & Treble (2 required)	
S-71883	Drive Cord & Eyelet Assbly - Treble	.45	46-5195	Bandswitch Knob	
S-71884	Drive Cord & Eyelet Assbly - Pointer	.40	46-5196	Balance Control Knob	
S-72060	Antenna Coil Assembly - AM	1.30	46-5197	Loudness Control Knob	
S-72586	FM Tuner Assembly	45.80	52-1103	Two Conductor Cable (Approx. 22")	.15
S-72828	Oscillator Coil Assembly - AM	1.60	52-1212	Two Conductor Shielded Lead (used on S-69382)	.60
S-73140	Scale & Backing Plate Assembly		52-1213	Two Conductor Shielded Lead (used on S-69382)	.60
S-73141	Escutcheon Assembly		54-139	3/8-32 x 9/16 Palnut - Cadmium (1 used on ea. 63-6361, 63-6362, 63-6363 & 85-923)	.03
S-73142	Indicator Strip & Ring Assembly		54-549	Tinnerman Speed Nut (4 used on ea. 192-351)	.03
CHASSIS 26XT20			54-633	Transistor Socket Retaining Nut (19 required)	.10
12-4209	Chassis Mounting Bracket (2 required)	.75	56-426	Roll Pin (2 used on S-72586)	.05
12-4210	Shutter Bracket	.10	57-5377	Chassis Bottom Plate	1.15
12-4211	Variable Capacitor Mounting Bracket	.20	57-5928	Trim Plate	
12-4254	Bottom Plate Mtg. Bracket (6 required)	.10	58-246	Two Prong Plug-AC (pt. of S-59959)	.15
19-238	Coil Mounting Clip (1 pat. of ea. S-69165 or S-72828)	.10	59-718	Dial Pointer	.50
19-326	Cable Retaining Clip	.05	61-222	Pulley (6 pt. of S-71213)	.20
19-464	Coil Mounting Clip (pt. of S-72060)	.05	62-28	Fuse Holder	.40
20-2033	Peaking Coil	.40	63-1701	10 Ohm Resistor 1/2W. -10% (2 req'd)	.17
22-3	.01 Mf Disc Capacitor-500V. (3 req'd.)	.30	63-1736	68 Ohm Resistor 1/2W. -10% (3 req'd)	.17
22-9	100 Pf Disc Capacitor-500V.	.25	63-1743	100 Ohm Resistor 1/2W. -10%	.17
22-13	.0033 Mf Disc Capacitor-500V. (3 req'd)	.25	63-1750	150 Ohm Resistor 1/2W. -10%	.17
22-17	.001 Mf Disc Capacitor-1000V. (2 req'd)	.25	63-1757	220 Ohm Resistor 1/2W. -10% (3 req'd)	.17
22-18	.0022 Mf Disc Capacitor-500V. (2 req'd)	.25	63-1761	270 Ohm Resistor 1/2W. -10%	.17
22-2434	2 Pf Gimmick Capacitor-500V.	.25	63-1764	330 Ohm Resistor 1/2W. -10% (2 used on S-71214) (6 required)	.17
22-2720	1 Pf Gimmick Capacitor-500V. (3 req'd)	.20	63-1771	470 Ohm Resistor 1/2W. -10% (1 used on S-69165) (9 required)	.17
22-2729	.001 Mf Disc Capacitor-25V.	.25	63-1775	560 Ohm Resistor 1/2W. -10% (2 req'd)	.17
22-3010	.01 Mf Disc Capacitor-25V.	.45	63-1778	680 Ohm Resistor 1/2W. -10% (3 req'd)	.17
22-3034	.05 Mf Disc Capacitor-25V. (2 used on S-69165) (23 required)	.45	63-1782	820 Ohm Resistor 1/2W. -10% (3 req'd)	.17
22-3177	390 Pf Disc Capacitor-500V. (2 req'd)	.25	63-1785	1000 Ohm Resistor 1/2W. -10% (1 used on ea. S-69165 & S-72828 & 4 used on S-71214) (12 required)	.17
22-3255	330 Pf Disc Capacitor-200V. (2 used on S-71214) (4 required)	.25	63-1789	1200 Ohm Resistor 1/2W. -10%	.17
22-3448	10 Mf Electrolytic Capacitor-15V.	1.00	63-1792	1500 Ohm Resistor 1/2W. -10%	.17
22-3467	12 Pf Disc Capacitor-500V. (used on S-72060)	.30	63-1796	1800 Ohm Resistor 1/2W. -10% (2 req'd)	.17
22-3527	.22 Mf Disc Capacitor-12V.	.60	63-1799	2200 Ohm Resistor 1/2W. -10% (5 req'd)	.17
22-3588	.47 Mf Disc Capacitor-12V.		63-1803	2700 Ohm Resistor 1/2W. -10%	.17
22-3595	.33 Mf Mylar Capacitor-50V. (4 req'd)	.60	63-1806	3300 Ohm Resistor 1/2W. -10% (2 req'd)	.17
22-3630	.068 Mf Mylar Capacitor-50V. (2 used on S-71214)	.30	63-1810	3900 Ohm Resistor 1/2W. -10% (2 used on S-71214) (4 required)	.17
22-3652	.1 Mf Disc Capacitor-10V.	.30	63-1813	4700 Ohm Resistor 1/2W. -10% (5 req'd)	.17
22-3675	10 Pf Disc Capacitor-500V.	.25	63-1817	5600 Ohm Resistor 1/2W. -10%	
22-3678	.047 Mf Capacitor-100V. (2 required)		63-1824	8200 Ohm Resistor 1/2W. -10%	
22-3710	.22 Mf Mylar Capacitor-50V. (2 used on S-71214)	.50	63-1825	9100 Ohm Resistor 1/2W. -5%	.34
22-3826	.022 Mf Capacitor-100V. (2 required)	.30	63-1826	10K Ohm Resistor 1/2W. -5%	
22-3879	1000 Mf Electrolytic Capacitor-50V.	4.15	63-1827	10K Ohm Resistor 1/2W. -10% (4 req'd)	.17
22-4110	.033 Mf Mylar Capacitor-200V. (1 used on S-71214) (3 required)	.30	63-1831	12K Ohm Resistor 1/2W. -10% (3 req'd)	
22-4601	.01 Mf Disc Capacitor-1000V.	.20	63-1834	15K Ohm Resistor 1/2W. -10% (3 req'd)	.17
22-4618	Three Section Variable Capacitor	4.55	63-1842	22K Ohm Resistor 1/2W. -20%	.17
22-4628	2 x 100 Mf Electrolytic Capacitor-15V.	1.60	63-1845	27K Ohm Resistor 1/2W. -10%	.17
22-4665	4300 Pf Mica Capacitor-300V. (used on S-72828)	1.20	63-1848	33K Ohm Resistor 1/2W. -10% (2 used on S-71214) (5 required)	.17
22-5011	500 Mf Electrolytic Capacitor-500V. (2 required)	3.25	63-1855	47K Ohm Resistor 1/2W. -10% (2 req'd)	.17
22-5012	.15 Mf Capacitor-50V. (2 required)	.40	63-1862	68K Ohm Resistor 1/2W. -10% (4 req'd)	
22-5018	.47 Mf Capacitor-50V. (2 used on S-71214) (4 required)	.60	63-1869	100K Ohm Resistor 1/2W. -10% (1 used on 85-923) (4 required)	
22-5116	.01 Mf Disc Capacitor-25V. (used on S-72060)	.20	63-1870	100K Ohm Resistor 1/2W. -20% (1 used on 85-923) (2 required)	
22-5162	Three Section Electrolytic Capacitor -300/25 - 500/50 - 500/50	4.47	63-1873	120K Ohm Resistor 1/2W. -10% (used on 85-923)	.17
22-5167	1000 Mf Electrolytic Capacitor-30V.	3.20	63-1876	150K Ohm Resistor 1/2W. -10%	.17
22-5187	.0047 Mf Disc Capacitor-1000V.	.20	63-1880	180K Ohm Resistor 1/2W. -10% (2 req'd)	
26-1319	Dial Scale - AM (pt. of S-73406)		63-1912	1 Megohm Resistor 1/2W. -20%	.17
26-1320	Dial Scale - FM (pt. of S-73406)		63-4519	2.7 Ohm Resistor 1/2W. -10% (4 req'd)	.17
44-48	Connector Jack (4 pt. of S-69382)	.20			

PART NO.	DESCRIPTION	PRICE	PART NO.	DESCRIPTION	PRICE
CHASSIS 26XT20 (Cont'd.)			105-93	38 KC Filter	.80
63-5192	Potentiometer	1.40	113-8	6-32 x 1/4 x 1/4 Hex Hd. Machine Screw - N.P. - Int. Shakeproof Lockwasher (2 mt. ea. 22-4618, 85-891 & 85-892)	.03
63-5305	.51 Ohm Resistor 5W. -10% (2 required)	.75	114-271	6-20 x 1/2 x 1/4 Hex Hd. Self-Tap Screw - Stat. Bronze (2 mt. ea. 121-398)	
63-5635	150 Ohm Resistor 2W. -10%	.34	114-335	8-18 x 1/2 x 1/4 Hex Hd. Self-Tap Screw - Stat. Bronze (4 join 26XT20 & S-73405)	.03
63-5652	390 Ohm Resistor 2W. -10% (2 required)	.30	114-344	6-20 x 1/4 x 1/4 Hex Hd. Self-Tap Screw - Stat. Bronze (3 used on 126-1150)	.03
63-5663	680 Ohm Resistor 2W. -10%	.30	114-654	6-20 x 3/8 x 1/4 Hex Hd. Self-Tap Screw - Stat. Bronze (2 used on S-73406 & 4 used on ea. S-73214)	.03
63-6042	220 Ohm Resistor 1W. -10% (2 required)	.25	114-709	8-18 x 1-1/8 x 1/4 Hex Hd. Self-Tap Screw - Stat. Bronze (1 joins 26XT20 & S-73405)	.03
63-6361	Dual Loudness Control	3.05	114-711	4-24 x 7/32 Hex Hd. Self-Tap Screw - Stat. Bronze - Flat Washer Attached (used on 12-4210)	.05
63-6362	Dual Bass Control	2.05	114-801	8-18 x 6/16 x 1/4 Hex Hd. Self-Tap Screw - Stat. Bronze (4 used on ea. 12-4209, 2 used on ea. 95-2330 & 22-4618; & 4 used on control panel assembly)	.03
63-6363	Dual Treble Control	3.50	114-804	8-18 x 1/2 Hex Hd. Self-Tap Screw - Stat. Bronze - Flat Washer Attached (4 used on ea. 95-2335 & S-72586)	.03
63-6376	Potentiometer	.60	114-823	6-20 x 1/2 Hex Hd. Self-Tap Screw - Stat. Bronze - Flat Washer Attached (6 mt. 57-5377)	.03
63-6377	50 Ohm Resistor 3W. -10%	.30	121-273	Transistor - A.G.C. Amplifier	.80
63-6378	.56 Ohm Resistor 5W. -10% (2 required)	.30	121-305	Transistor - Pre-Driver (2 required)	.55
78-402	Four Contact Socket	.15	121-306	Transistor - Pre-Amp (2 required)	.70
78-1099	Three Contact Socket	.20	121-333	Transistor - A.M. Mixer, A.M. Oscillator (2 required)	.80
78-1347	Electrolytic Socket (2 required)	.10	121-335	Transistor - A.M. Oscillator	1.50
78-1429	Triple Light Socket & Wire	1.00	121-347	Transistor - Bi-Plex Detector	1.20
78-1442	Three Contact Transistor Socket (6 required)	.30	121-348	Transistor - Comp. Amp, 19 KC Amp, Stereo Indicator Switch (4 req'd)	1.10
78-1443	Stereo Indicator Light Socket & Wire	.50	121-398	Transistor - Power Amp (4 required)	2.50
78-1486	Power Transistor Socket (4 required)		121-399	Transistor - Driver (2 required)	1.20
78-1621	Three Contact Transistor Socket (6 required)	.20	121-414	Transistor - FM & AM 1st I.F.	1.45
78-1677	Four Contact Transistor Socket (4 required)	.40	121-415	Transistor - FM & AM 2nd I.F., FM 3rd I.F., FM 4th I.F. (3 required)	1.45
79-174-12	#18 Sleeving - Yellow - 1 1/2"	.03	125-117	Rubber Grommet (4 used on S-72586)	.03
80-1140	Tension Spring (Pointer)	.10	126-1106	Heat Dissipator (2 required)	.10
80-1188	Tension Spring (Gang)	.10	126-1150	Light Shield	1.45
80-1763	Retaining Spring (1 used on ea. 83-5307)	.03	136-40	Fuse - 2 Amp	.35
80-1863	Shutter Bracket Return Spring	.10	149-211	Iron Core (1 pt. of ea. S-69165 & S-72828)	.10
83-3641	Five Lug Terminal Strip	.10	149-370	Iron Core (pt. of S-72060)	.15
83-3652	Three Lug Terminal Strip	.05	159-154	Plug Button (2 mt. ea. 26-1319 & 26-1320)	.10
83-5277	Insulating Strip-Transistor (4 required)	.03	188-422	Clamping Ring (used on S-72586)	.03
83-5284	Five Lug Terminal Strip	.15	199-405	Shielded Paper Sleeve	.05
83-5286	Eight Lug Terminal Strip	.20	205-51	Silicone Grease (pt. of ea. 121-398)	.16
83-5288	Thirteen Lug Terminal Strip	.35	212-61	Rectifier (2 required)	1.35
83-5289	Fifteen Lug Terminal Strip (2 required)	.40	322-30	5 Mf Electrolytic Capacitor - 25V. (4 required)	
83-5291	Insulating Strip (used on 83-5284)	.03	or		
83-5307	Pointer Support Strip (2 required)	.15	22-2884	5 Mf Electrolytic Capacitor - 12V. (4 required)	1.50
83-5308	Support Strip (pt. of S-69376)	.75	S-49418	Drive Cord & Eyelet Assembly - Pointer (approx. 26-5/8")	.20
83-5309	Thirty Lug Terminal Strip (pt. of S-71214)	.70	S-59959	A.C. Interlock & Bracket Assembly	.40
83-5328	Eleven Lug Terminal Strip (2 required)	.35	S-61578	Drive Cord & Eyelet Assembly - Gang (approx. 10-3/16")	.15
83-5329	Rubber Channel Strip (2 used on ea. 192-351)	.15	S-69165	Detector Coil Assembly (AM)	1.40
83-5399	Four Lug Terminal Strip	.20	S-69376	Dial Scale Light Shield & Strip Assbly.	
83-5779	Trim Strip - Bandswitch (pt. of S 73405)		S-69382	Tape Jack & Bracket Assembly	.95
83-5780	Trim Strip - Tone Control (part of S-73405)				
83-5781	Trim Strip - Push Button (pt. of S-73405)				
83-5881	Two Lug Terminal Strip				
83-5882	Insulating Strip (used on 83-5881)				
85-891	A.C. Switch	3.10			
85-892	Stereo - Monaural Switch	1.80			
85-923	Five Position Bandswitch				
86-328	Wire Retaining Terminal	.03			
86-388	Connector Terminal (2 used on 78-1443)	.05			
94-1396	Nylon Busing (used on S-72586)	.10			
95-2313	Doubler Mixer Transformer	3.05			
95-2314	Detector Mixer Transformer	2.90			
95-2315	Input Mixer Transformer	3.05			
95-2316	Trap Coil	1.86			
95-2324	Ratio Detector Transformer	4.75			
95-2325	1st I.F. Transformer (AM)	1.80			
95-2326	2nd I.F. Transformer (AM)	1.95			
95-2327	3rd I.F. Transformer (AM)	2.65			
95-2328	2nd & 4th I.F. Transformer - FM (2 required)	1.90			
95-2330	Driver Transformer (2 required)	3.15			
95-2335	Power Transformer	12.55			
95-2387	3rd I.F. Transformer (FM)	2.20			
100-249	Pilot Light Bulb (3 required)	.18			
100-384	Stereo Indicator Bulb	1.30			
103-23	Diode (3 required)	.75			
103-96	Diode	1.75			

PART NO.	DESCRIPTION	PRICE	PART NO.	DESCRIPTION	PRICE
CHASSIS 26XT20 (Cont'd.)			114-453	6-18 x 5/8 Hex Washer Hd. Self-Tap Screw - Stat. Bronze (4 mt. 2-2583)	.10
S-71057	Drive Cord & Eyelet Assbly. - Gang (approx. 18-9/16")	.30	854-15	Speed Nut (2 part of 14-7662)	
S-71060	Drive Cord & Eyelet Assembly - Pointer (approx. 32")	.25	910-252	Grille Cloth (part of 14-7662)	
S-71213	Control Panel Assembly		MODEL S2437		
S-71214	Bracket & Terminal Strip Assbly.	.95	14-7661	Cabinet	
S-72060	Antenna Coil Assembly (AM)	1.30	16-3174	Packing Carton	
S-72586	FM Tuner Assembly (see FM tuner pts. list for components)	45.80	22-4588	2 Mf Electrolytic Capacitor - 30V.	1.45
S-72828	Oscillator Coil Assembly (AM)	1.60	49-1004	Horn Tweeter	27.27
S-73214	Heat Sink & Socket Assbly. (2 req'd.)		49-1102	12" PM Speaker	
S-73405	Escutcheon Assembly		54-423	6-32 Palnut (4 mt. 49-1004)	.03
S-73406	Dial Scale & Shield Assembly		54-424	8-32 Palnut (4 mt. 49-1102)	.03
MODEL S2434			57-5204	Name Plate (part of 14-7661)	
2-2583	Cabinet Back		72-127	8 x 1-1/4 Phillips Flat Hd. Wood Screw - Stat. Bronze (10 pt. of 14-7661)	.05
14-7662	Table Cabinet		83-5872	Terminal Strip	
16-3176	Packing Carton		83-5879	Acoustical Pad (part of 14-7661)	
49-984	6" x 9" PM Speaker	8.64	86-255	Terminal (2 required)	.03
49-1094	3-1/2" PM Speaker	3.80	86-329	Connector Terminal (4 required)	.03
54-423	6-32 Palnut (2 mt. 49-1094 & 4 mt. 49-984)	.03	112-1266	6-32 x 1-1/2" Speaker Mt. Screw (4 part of 14-7661)	.05
57-5204	Name Plate (part of 14-7662)		112-1270	8-32 x 1-3/4" Speaker Mt. Screw (4 part of 14-7661)	.05
86-255	Terminal (2 required)	.03	157-22	Fastener (2 required)	.05
86-329	Connector Terminal (4 required)	.03	854-15	Speed Nut (2 part of 14-7661)	
112-1265	6-32 x 1-1/4" Speaker Mt. Screw (2 part of 14-7662)	.05	910-654	Grille Cloth (part of 14-7661)	
112-1266	6-32 x 1-1/2" Speaker mt. Screw (4 part of 14-7662)	.05	965-21	3/4 Dia. Plastic Floor Glide (4 part of 14-7661)	
CHASSIS 6NT20			PARTS OUT OF SEQUENCE		
11-183	A.C. Line Cord	.80	79-174-14	#18 Sleeving-Yellow (4 Required)	.03
22-3	.01 Mf Disc Capacitor (4 Required)	.30	79-210-10	#22 Sleeving-Green (2 Required)	
22-2793	.047 Mf Disc Capacitor-400V (2 Req'd.)		79-211-10	#22 Sleeving-Blue (2 Required)	
22-3317	.1 Mf Capacitor - 200V. (2 Required)	.35	83-3459	Two Lug Terminal Strip (2 Required)	
22-3615	1 Mf Electrolytic Capacitor (2 req'd.)	1.25	83-3674	Seven Lug Terminal Strip	.20
22-3896	5 Mf Electrolytic Capacitor-25V. (4 Required)	1.00	83-4871	Transistor Insulating Strip (1 used on each 121-315)	.03
22-4617	.01 Mf Disc Capacitor	.10	83-5498	Sixteen Lug Terminal Strip	
or			83-5504	Three Lug Terminal Strip (2 Required)	
22-3	.01 Mf Disc Capacitor	.30	83-5616	Seven Lug Terminal Strip	
22-4636	Electrolytic Capacitor	2.05	86-199	Terminal-Shakeproof-Phosphor Bronze-Hot Solder Dip (used on Chassis)	.03
22-5233	.015 Mf Capacitor-50V. (2 Required)		86-344	Socket Terminal	.03
22-5234	Dual Electrolytic Capacitor		90-746	Spacer Sleeve (1 used on each 94-1171)	
43-519	Socket Contact Housing	.20	94-1171	Insulating Bushing (2 Required)	.10
52-1222	Four Conductor Cable	.30	94-1287	Shoulder Bushing (2 used on each 121-315)	.10
54-384	4-40 Palnut-Cadmium (2 mt. each 121-315)	.03	95-2373	Output Transformer (2 Required)	
58-214	Single Prong Plug (2 part of S-69705)	.10	114-940	4-40 x 5/16 x 3/16 Hex Hd. Mach. Screw-Cadmium-(2 used on each 121-315)	
63-1807	3300 Ohm Resistor 1/2W. 20% (2 req'd.)	.17	121-315	Transistor-Output (2 Required)	4.20
63-1828	10K Ohm Resistor 1/2W. 20% (2 req'd.)	.17	121-433	Transistor-Pre-Amp (2 Required)	
63-1852	39K Ohm Resistor 1/2W. 10% (2 req'd.)	.17	121-435	Transistor-Driver (2 Required)	
63-1855	47K Ohm Resistor 1/2W. 10% (2 req'd.)	.17	125-96	Strain Relief Grommet (used on 11-183)	.10
63-1863	68K Ohm Resistor 1/2W. 20% (4 req'd.)	.17	205-51	Heat Conductive Grease (Furnished as part of 121-315)	.70
63-1869	100K ohm Resistor 1/2W. 10% (2 req'd.)	.17	S-69705	Phono Input Cable Assembly	
63-1880	180K Ohm Resistor 1/2W. 10% (2 req'd.)	.17	PARTS OUT OF SEQUENCE		
63-1883	220K Ohm Resistor 1/2W. 10% (2 req'd.)	.17	212-71 or	Silicon Rectifier	
63-1915	1.2 Megohm Resistor 1/2W. 10% (2 Required)	.17	212-27	Silicon Rectifier	
63-1925	2.2 Megohm Resistor 1/2W. 10% (2 Required)	.17			
63-5440	Voltage Dependent Resistor (2 req'd.)	.50			
63-6042	220 Ohm Resistor 1W. 10% (2 req'd.)	.25			
63-6140	47K Ohm Resistor 1W. 10%				
63-6461	200 Ohm Fusing Type Resistor				
63-6473	Dual Bass Control				
63-6474	Dual Treble Control				
63-6475	Dual Loudness Control				
63-6476	Balance Control				

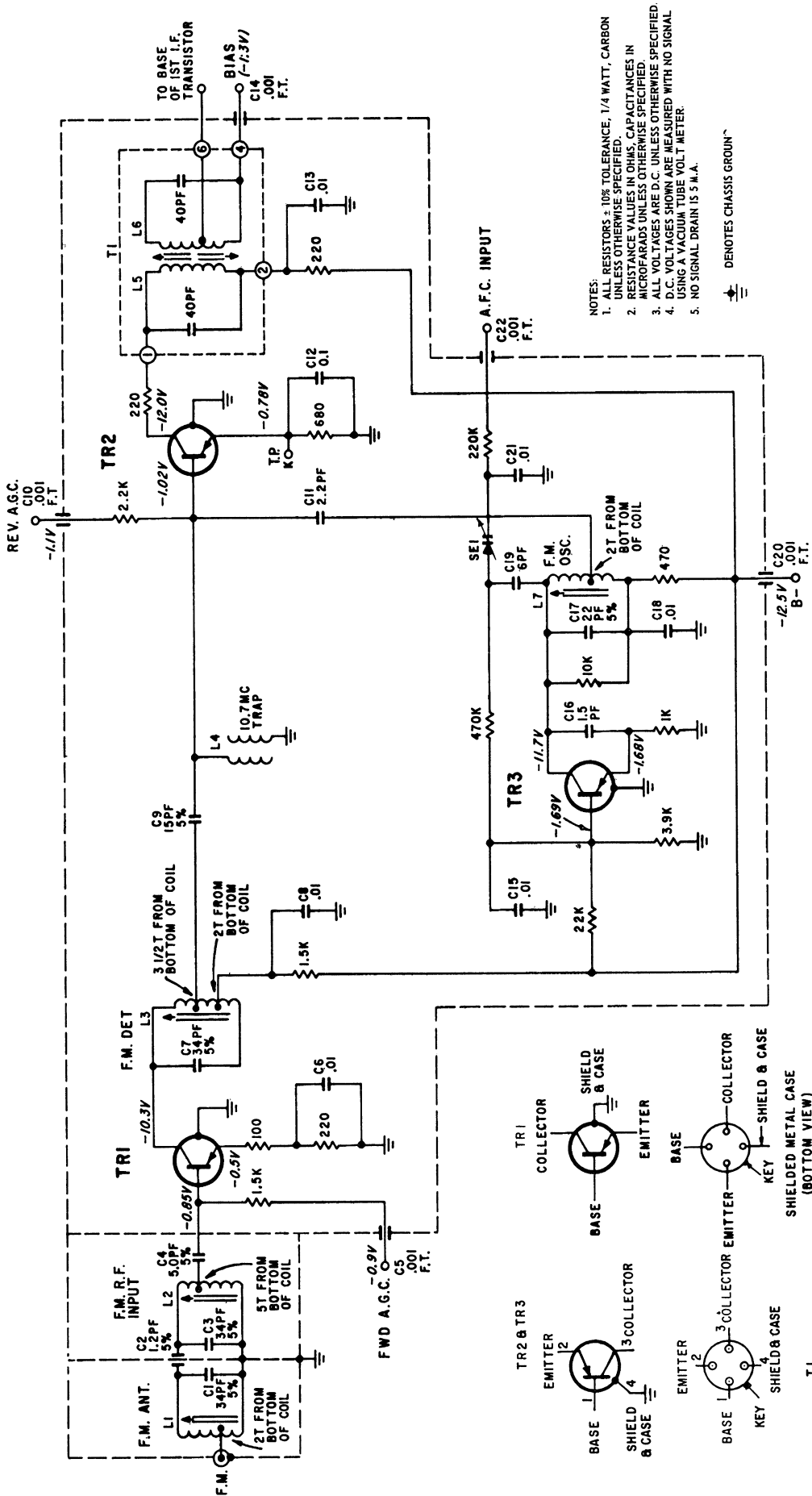
ALL PRICES SHOWN ARE SUGGESTED U.S. RETAIL AND ARE SUBJECT TO CHANGE WITHOUT NOTICE.

ITEM NO.	PART NO.	DESCRIPTION	ITEM NO.	PART NO.	DESCRIPTION	ITEM NO.	PART NO.	DESCRIPTION
C1A		2NT21 & 2NT22			4NT22			ANTENNA TUNING
C1B		ANT. TRIMMER	C1	22-18	.0022 MFD DISC ±10%	C19A	22-3961	ANTENNA TRIMMER
C1C	22-4657	OSC. TUNING	C2	322-22	5 MFD ELECTROLYTIC	C19B		A.M. OSCILLATOR TUNING
C1D		OSC. TRIMMER	C3	22-4182	.33 MFD MYLAR ±10%	C19C		A.M. OSCILLATOR TRIMMER
C2	22-3034	.05 MFD DISC	C4	322-22	5 MFD ELECTROLYTIC	C20	22-9	100 PF DISC ±10%
C3	22-3	.01 MFD DISC	C5	22-14	.0047 MFD DISC ±10%	C21	22-3	.01 MFD DISC
C4	22-2884	5 MFD ELECTROLYTIC	C6	22-3994	500 MFD ELECTROLYTIC	C22	22-3	.01 MFD DISC
C5	22-3034	.05 MFD DISC	C7	22-5171	180 MFD ELECTROLYTIC	C23	22-3	.01 MFD DISC
C6	22-3034	.05 MFD DISC	C8	22-4097	.022 MFD MYLAR	C24	22-2569	.047 MFD
C7	22-2428	1.8 PF GIMMICK	C9	22-5172	500 MFD ELECTROLYTIC	C25	22-4613	.001 F.T.
C8	22-4097	1 MFD ELECTROLYTIC	C10A	22-5173	1000 MFD ELECTROLYTIC	C26	22-3	.01 MFD DISC
C9	22-3615	1 MFD ELECTROLYTIC	C10B	22-5173	500 MFD ELECTROLYTIC	C27	22-3	.01 MFD DISC
C10	22-3317	.1 MFD ± 20%	R1	63-6379	5K OHM VOLUME CONTROL (TAPPED)	C28	22-16	470
C11			R2	63-6319	50K OHM TONE CONTROL	C29	22-2569	.047 MFD
C12	22-4568	100 MFD ELECTROLYTIC	R3	63-5951	1.5 OHM RESISTOR 10%	C30	22-3	.01 MFD DISC
C13	22-4617	.01 MFD DISC	R4	63-5951	1.5 OHM RESISTOR 10%	C31	22-5	100 PF DISC
C14	22-4509	20 MFD ELECTROLYTIC	T1	95-2336	DRIVER TRANSFORMER	R3	63-5238	300 OHM ±10%
C15	22-2884	5 MFD ELECTROLYTIC	T2	95-2337	POWER TRANSFORMER	L1	S-52362	FM ANTENNA COIL
C16	22-2998	1 MFD ± 20% MYLAR TUBULAR	SE1	212-27	SILICON RECTIFIER	L2	S-62887	FM DETECTOR COIL ASSEMBLY
C17A	22-4675	80 MFD ELECTROLYTIC	S1	85-889	SLIDE SWITCH	L3	S-64580	FM OSCILLATOR COIL ASSEMBLY
C17B	22-4617	100 MFD ELECTROLYTIC	BT1	5-31	1 1/2V. BATTERY (6 REQUIRED)	L4	IN T1	1ST I.F. TRANSFORMER PRIMARY
C18	22-4617	.01 MFD DISC	SP1	49-1090	4X6 SPEAKER	L5	IN T1	1ST I.F. TRANSFORMER SECONDARY
C19	22-3659	.047 MFD	F1	136-64	FUSE	L6	IN T2	2ND I.F. TRANSFORMER PRIMARY
C20	22-3659	.047 MFD	TR1	121-408	TRANSISTOR	L7	IN T2	2ND I.F. TRANSFORMER SECONDARY
R1	63-6858	VOLUME CONTROL	TR2	121-409	TRANSISTOR	L8	IN T3	3RD I.F. TRANSFORMER PRIMARY
R2	63-6319	TONE CONTROL	TR3	121-401	TRANSISTOR	L9	IN T3	3RD I.F. TRANSFORMER SECONDARY
R3	63-5440	VOLTAGE DEPENDENT RESISTOR	TR4	121-401	TRANSISTOR	L10	IN T4	DISC TRANSFORMER
R4	63-6112	10K OHMS ± 10%	TR5	121-400	TRANSISTOR (USED ON 5NT20 ONLY)	L11	IN T4	DISC TRANSFORMER
R5	63-5302	350 OHMS ± 5% FUSING	C1	322-17	.001 DISC	L12	S-62838	AM ANTENNA ASSEMBLY
S1	85-915	3 POSITION SWITCH	C2	22-5325	26 PF DISC ±5%	L13	S-64572	LOOP LOADING COIL ASSEMBLY
L1	S-72896	WAVEMAGNET ASSEMBLY	C3	22-3456	2 X 12 PF DISC ±5%	L14	IN T5	1ST I.F. AM TRANSFORMER PRIMARY
L2	149-311	IRON CORE SLEEVE	C4	22-3621	22 PF DISC ±5%	L15	IN T5	1ST I.F. AM TRANSFORMER SECONDARY
L3	IN T1	OSC. TRANSFORMER PRIMARY	C5	22-1888	.001 CERAMIC	L16	IN T6	2ND I.F. AM TRANSFORMER PRIMARY
L4	IN T1	OSC. TRANSFORMER SECONDARY	C6	22-3675	10 PF DISC ±.25%	L17	IN T6	2ND I.F. AM TRANSFORMER SECONDARY
L5	IN T2	1ST I.F. TRANSFORMER PRIMARY	C7	22-4613	.001 F.T.	L18	S-61505	AM OSCILLATOR COIL ASSEMBLY
L6	IN T2	1ST I.F. TRANSFORMER SECONDARY	C8	22-4613	.001 F.T.	L19	149-311	FERRITE SLEEVE
L7	IN T3	2ND I.F. TRANSFORMER PRIMARY	C9	22-4613	.001 F.T.	T1	95-2120	1ST I.F. TRANSFORMER
L8	IN T3	2ND I.F. TRANSFORMER SECONDARY	C10	22-3	.01 DISC	T2	95-1919	2ND I.F. TRANSFORMER
T1	95-2403	OSC. TRANSFORMER	C11	22-14	.0047 MFD DISC	T3	95-1919	3RD I.F. TRANSFORMER
T2	95-2171	1ST I.F. TRANSFORMER	C12	22-3	.01 DISC	T4	95-1866	DISC TRANSFORMER
T3	95-2394	2ND I.F. TRANSFORMER	C13	22-18	.0022 MFD DISC	T5	95-1718	1ST AM I.F. TRANSFORMER
T4	95-2341	OUTPUT TRANSFORMER	C14	22-3	.01 MFD DISC	T6	95-1505	2ND AM I.F. TRANSFORMER
X1	103-74	CRYSTAL DIODE	C15	22-16	470 PF DISC	S1	85-910	BANDSWITCH
X2	103-44	CRYSTAL DIODE	C16	22-5	100 PF DISC	X1	403-2	A.F.C. DIODE
SE1	212-71	SILICON RECTIFIER	C17	22-17	.001 MFD DISC	U1	405-7	R.C. NETWORK
A1	105-49	INTEGNET	C18	22-3627	.047 MFD	U2	105-79	R.C. NETWORK
SP1	49-1039	P.M. SPEAKER						

ITEM NO.	PART NO.	DESCRIPTION	ITEM NO.	PART NO.	DESCRIPTION	ITEM NO.	PART NO.	DESCRIPTION
C1	22-2793	.047 MFD	C7	22-4666	.001 MFD DISC ±10%	C5	22-3318	.001 DISC
C2	322-15	.01 MFD	C8	22-4109	.033 MFD	C6	22-3456	2 X 12 PF DISC ±5%
C3	322-109	1 MFD ELECTROLYTIC	C9	22-4109	.033 MFD	C7	322-126	22 PF DISC ±5%
C4	322-30	5 MFD ELECTROLYTIC	C10	22-3241	100 MFD ELECTRO	C8	22-3675	10 PF ±5%
C5	22-5233	.015 MFD ± 20%	C11	22-4673	500 MFD ELECTRO	C9	22-4613	.001 F.T.
C6	322-15	.01 MFD	C12	22-2939	680 PF	C10	22-3	.01 MFD DISC
C7	322-109	1 MFD ELECTROLYTIC	C13	22-3878	2000 MFD ELECTRO	C11	22-4613	.001 F.T.
C8A	22-5234	300 MFD ELECTROLYTIC	C14	22-3881	1500 MFD ELECTRO	C12	22-4613	.001 F.T.
C8B	22-3917	300 MFD ELECTROLYTIC	C15A	22-5162	500 MFD ELECTRO	C13	22-3	.01 MFD DISC
C9	322-15	.01 MFD	C15B		500 MFD ELECTRO	C14	322-81	.0047 MFD DISC ±10%
C10	322-15	.01 MFD	C15C		300 MFD ELECTRO	C15	22-3	.01 MFD DISC
C11	322-109	1 MFD ELECTROLYTIC	R1	63-5338	180 OHM ± 10%	C16	322-82	.0022 MFD DISC ±10%
C12	22-5233	.015 MFD ±20%	R2	63-5961	2.7 OHMS ± 10%	C17	22-3	.01 MFD DISC
C13	322-30	5 MFD ELECTROLYTIC	R3	63-5369	220 OHM ± 10%	C18	322-16	100 PF DISC
C14	322-15	.01 MFD	R4	63-5961	2.7 OHMS ± 10%	C19	22-3537	.047 MFD
C15	322-109	1 MFD ELECTROLYTIC	R5	63-6442	560 OHMS ± 10%	C20	22-3	.01 MFD DISC
C16	22-3317	.1 MFD	R6	63-5282	0.39 OHMS ± 5%	C21	22-3774	2 PF DISC ±.25% PF
C17	22-2793	.047 MFD	R7	63-5367	0.43 OHMS ± 5%	C22	322-16	100 PF DISC
C18	22-4617	.01 MFD	R8	63-5641	220 OHMS ± 20%	C23	322-27	.0033 MFD DISC ±10%
C19A		100 MFD ELECTROLYTIC	R9	63-5217	2 OHMS ± 10%	C24	22-3591	.1 MFD ±10%
C19B	22-4636	60 MFD ELECTROLYTIC	R10	63-5338	180 OHMS ± 10%	C25	22-3	.01 MFD DISC
R1A	63-6473	DUAL BASS CONTROL	R11	63-5961	2.7 OHMS ± 10%	C26	22-3626	.22 MFD ±10%
R1B			R12	63-6442	560 OHMS ± 10%	C27	322-123	470 PF DISC ±10%
R2A	63-6475	DUAL LOUDNESS CONTROL	R13	63-5961	2.7 OHMS ± 10%			
R2B			R14	63-5282	0.39 OHMS ± 5%			
R3	63-6476	BALANCE CONTROL	R15	63-5367	0.43 OHMS ± 5%			
R4	63-6042	220 OHM ± 10%	R16	63-5641	220 OHMS ± 20%			
R5A	63-6474	DUAL TREBLE CONTROL	R17	63-5369	220 OHMS ± 10%			
R5B			R18	63-5656	470 OHM ± 10%			
R6	63-5440	VOLTAGE DEPENDANT RESISTOR	R19	63-5656	470 OHM ± 10%			
R7	63-6042	220 OHM ± 10%	T1	95-2428	DRIVER TRANSFORMER			
R8	63-5440	VOLTAGE DEPENDANT RESISTOR	T2	95-2427	DRIVER TRANSFORMER			
R9	63-6461	200 OHM ± 10%	T3	95-2425	POWER TRANSFORMER			
R10	63-6140	47K OHM ± 10%						
T1	95-2445	OUTPUT TRANSFORMER	F1	136-61	3 AMP. FUSE (TYPE C)			
T2	95-2445	OUTPUT TRANSFORMER	M1	S-73151	9 CONTACT HOUSING ASSEMBLY			
SE1	212-71	SILICON RECTIFIER	M2	S-69074	6 CONTACT HOUSING ASSEMBLY			
SP1	49-1087	SPEAKER 6" x 9" WOOFER	M3	S-61236	2 CONTACT HOUSING ASSEMBLY			
SP2	49-978	SPEAKER 3 1/2" TWEETER	PL10	100-249	PHONO LAMP #1847, 6.3V., 150MA			
SP3	49-1087	SPEAKER 6" x 9" WOOFER	PL11	100-249	CAB'T. LAMP #1847, 6.3V., 150MA			
SP4	49-978	SPEAKER 3 1/2" TWEETER	SE1	212-62	SILICON RECTIFIER			
			SE2	212-62	SILICON RECTIFIER			
		6XT24			7L01Z9			
C1	22-3883	50 MFD ELECTRO	C1	22-3939	26 PF DISC ±5%	R1	63-4880	POTENTIOMETER
C2	22-3241	100 MFD ELECTRO	C2	22-1888	.001 MFD CERAMIC	R2	63-4851	125 OHM WW ±10%
C3	22-4673	500 MFD ELECTRO	C3	22-4613	.001 F.T.	R3	63-4283	220K ±10%
C4	22-2939	680 PF	C4			R4	63-4199	2.2K ±10%
C5	22-4601	.01 MFD DISC						
C6	22-3135	.1 MFD				L1	S-52362	FM ANTENNA COIL ASSEMBLY

ITEM NO.	PART NO.	DESCRIPTION	ITEM NO.	PART NO.	DESCRIPTION	ITEM NO.	PART NO.	DESCRIPTION
7L0129 (Continued)								
L2	S-62887	FM DETECTOR COIL ASSEMBLY	C9	322-40	.001 DISC ± 10%	C7	322-40	.001 DISC ± 10%
L3	S-64580	FM OSCILLATOR COIL ASSEMBLY	C10	22-3694	.1 MFD ± 10%	C8	22-3694	.1 MFD ± 10%
L4	1N T1	1ST I.F. COIL PRIMARY	C11	322-30	5 MFD ELECTROLYTIC	C9	322-40	.001 DISC ± 10%
L5	1N T1	1ST I.F. COIL SECONDARY	C12	322-30	5 MFD ELECTROLYTIC	C10	22-3694	.1 MFD ± 10%
L6	1N T2	2ND I.F. COIL PRIMARY	C13	22-4619	2 X 100 MFD D ELECTROLYTIC	C11	322-30	5 MFD ELECTROLYTIC
L7	1N T2	2ND I.F. COIL SECONDARY	C14	22-3014	820 PF MICA ± 10%	C12	322-30	5 MFD ELECTROLYTIC
L8	1N T3	2ND I.F. COIL PRIMARY	C15	22-3014	820 PF MICA ± 10%	C13	22-4619	2 X 100 MFD D ELECTROLYTIC
L9	1N T3	2ND I.F. COIL SECONDARY	C16	22-3630	.068 MFD ± 10%	C14	22-3014	820 PF MICA ± 10%
L10	1N T4	3RD I.F. COIL PRIMARY	C17	22-3630	.068 MFD ± 10%	C15	22-3014	820 PF MICA ± 10%
L11	1N T4	3RD I.F. COIL SECONDARY	C18	22-5182	.033 MFD ± 20%	C16	22-3630	.068 MFD ± 10%
L12	1N T5	DISCRIMINATOR COIL PRIMARY	C19	22-5182	.033 MFD ± 20%	C17	22-3630	.068 MFD ± 10%
L13	1N T5	DISCRIMINATOR COIL SECONDARY	C20	22-2704	.0068 MFD DISC ± 10%	C18	22-5182	.033 MFD ± 20%
L14	S-62838	AM ANTENNA COIL ASSEMBLY	C21	22-2704	.0068 MFD DISC ± 10%	C19	22-5182	.033 MFD ± 20%
L15	S-64572	LOOP LOADING ASSEMBLY	C22	22-5175	200 MFD ELECTROLYTIC	C20	22-2704	.0068 MFD DISC ± 10%
L16	1N T10	1ST I.F. COIL ASSEMBLY PRIMARY	C23	22-5175	200 MFD ELECTROLYTIC	C21	22-2704	.0068 MFD DISC ± 10%
L17	1N T10	1ST I.F. COIL ASSEMBLY SECONDARY	C24	22-5175	200 MFD ELECTROLYTIC	C22	22-5175	200 MFD ELECTROLYTIC
L18	S-61505	AM OSCILLATOR COIL ASSEMBLY	C25	22-3693	60 MFD ELECTROLYTIC	C23	22-5175	200 MFD ELECTROLYTIC
L19	149-311	FERRITE SLEEVE	C26	22-5167	150 MFD ELECTROLYTIC	C24	22-5167	1000 MFD ELECTROLYTIC
PL1	S-64646	NEON INDICATOR	C27	22-4620	.01 MFD DISC	C25A	22-4620	500 MFD ELECTROLYTIC
S1	85-907	BANDSWITCH	C27B	22-4620	1000 MFD ELECTROLYTIC	C25B	22-4620	200 MFD ELECTROLYTIC
T1	95-2120	1ST I.F. TRANSFORMER FM	R1A&B	63-6372	DUAL BASS CONTROL & NON-STEREO SWITCH	R1A&B	63-6372	DUAL BASS CONTROL & NON-STEREO SWITCH
T2	95-1919	2ND I.F. TRANSFORMER FM	R2A&B	63-6373	DUAL LOUDNESS CONTROL	R2A&B	63-6373	DUAL LOUDNESS CONTROL
T3	95-1505	2ND I.F. TRANSFORMER AM	R3	63-6049	330 OHM RESISTOR ± 10%	R3	63-6049	330 OHM RESISTOR ± 10%
T4	95-1919	3RD I.F. TRANSFORMER FM	R4	63-6049	330 OHM RESISTOR ± 10%	R4	63-6049	330 OHM RESISTOR ± 10%
T5	95-1866	DISCRIMINATOR TRANSFORMER FM	R5A&B	63-6371	DUAL TREBLE CONTROL	R5A&B	63-6371	DUAL TREBLE CONTROL
T6	95-2073	INPUT MULTIPLEX TRANSFORMER	R10	63-6017	56 OHM RESISTOR ± 10%	R10	63-6017	56 OHM RESISTOR ± 10%
T7	95-2076	DOUBLE MULTIPLEX TRANSFORMER	T1	95-2340	DRIVER TRANSFORMER	T1	95-2340	DRIVER TRANSFORMER
T8	95-2078	TRAP COIL TRANSFORMER	T2	95-2340	DRIVER TRANSFORMER	T2	95-2340	DRIVER TRANSFORMER
T9	95-2077	DETECTOR MULTIPLEX TRANSFORMER	T3	95-2353	POWER TRANSFORMER	T3	95-2353	POWER TRANSFORMER
T10	95-1718	1ST I.F. TRANSFORMER AM	R8	63-5193	22 OHM RESISTOR ± 10%	SE1	212-71	SILICON RECTIFIER
CV1	403-2	A.F.C. DIODE	R9	63-6017	56 OHM RESISTOR ± 10%	SE2	212-71	SILICON RECTIFIER
A1	405-7	R.C. NETWORK	R10	63-5497	2 OHM RESISTOR ± 5%	SW1	ON R1	MONAURAL - STEREO SWITCH
A2	105-79	R.C. NETWORK	T1	95-2340	DRIVER TRANSFORMER	M1	S-71063	PHONO AC CABLE ASS'Y.
A3	105-78	R.C. NETWORK	T2	95-2340	DRIVER TRANSFORMER	8NT01		
X1	103-23	CRYSTAL DIODE	T3	95-2356	OUTPUT TRANSFORMER	C1	322-20	.05 MFD DISC
X2	103-23	CRYSTAL DIODE	T4	95-2356	OUTPUT TRANSFORMER	C2	22-3654	.47 MFD
X3	103-34	GERMANIUM DIODE	T5	95-2339	AUTOFORMER	C3	322-109	1 MFD ELECTROLYTIC
X4	103-34	GERMANIUM DIODE	SE1	212-37	SILICON RECTIFIER	C4	22-5251	.15 MFD ELECTROLYTIC ± 20%
8NT02			SE2	212-71	SILICON RECTIFIER	C5	22-5257	.1 MFD ± 20%
C1	322-20	.05 MFD DISC	SE3	212-71	SILICON RECTIFIER	C6	22-5259	.0082 MFD ± 20%
C2	322-20	.05 MFD DISC	SW1	ON R1	MONAURAL - STEREO SWITCH	C7	22-5257	.1 MFD ± 20%
C3	322-72	1 MFD ELECTROLYTIC	8NT04			C8	22-5257	.1 MFD ± 20%
C4	322-72	1 MFD ELECTROLYTIC	C1	322-20	.05 MFD DISC	C9	22-5258	.22 MFD ± 20%
C5	322-72	1 MFD ELECTROLYTIC	C2	322-20	.05 MFD DISC	C10	322-30	5 MFD ELECTROLYTIC
C6	322-30	5 MFD ELECTROLYTIC	C3	322-72	1 MFD ELECTROLYTIC	C11	322-30	5 MFD ELECTROLYTIC
C7	322-40	.001 DISC ± 10%	C4	322-72	1 MFD ELECTROLYTIC	C12	22-4628	2 X 100 MFD ELECTROLYTIC
C8	22-3694	.1 MFD ± 10%	C5	322-30	5 MFD ELECTROLYTIC	C13	322-3	.01 MFD
			C6	322-30	5 MFD ELECTROLYTIC			

ITEM NO.	PART NO.	DESCRIPTION	ITEM NO.	PART NO.	DESCRIPTION
		10NT01 (Continued)			
C14	322-3	.01 MFD	C5	22-4613	.001 MFD FEED THRU
C15	22-5168	300 MFD ELECTROLYTIC	C6	322-3	.01 MFD
C16	22-4649	70 MFD	C7	22-3258	34 PF DISC 5%
C17	322-20	.05 MFD	C8	322-3	.01 MFD
C18	22-3654	.47 MFD	C9	22-2642	15 PF DISC
C19	322-109	1 MFD ELECTROLYTIC	C10	22-4613	.001 MFD FEED THRU
C20			C11	22-3479	2.2 PF DISC 5%
C21	22-5251	.15 MFD ± 20%	C12	22-3652	0.1 MFD DISC
C22	22-5257	.1 MFD ± 20%	C13	322-3	.01 MFD DISC
C23	22-5259	.0082 MFD ± 20%	C14	22-4613	.001 MFD FEED THRU
C24	22-5257	.1 MFD ± 20%	C15	322-3	.01 MFD
C25	22-5257	.1 MFD ± 20%	C16	322-44	1.5 PF GIMMICK
C26	22-5258	.22 MFD ± 20%	C17	22-3621	22 PF DISC
C27	322-30	5 MFD ELECTROLYTIC	C18	322-3	.01 MFD DISC
C28	322-3	.01 MFD	C19	22-2374	6 PF DISC
C29	22-3654	.01 MFD	C20	22-4613	.001 MFD FEED THRU
C30	22-5168	300 MFD ELECTROLYTIC	C21	322-3	.01 MFD DISC
C31	22-5167	1000 MFD ELECTROLYTIC	C22	22-4613	.001 MFD FEED THRU
C32	22-5260	2 x 500 MFD ELECTROLYTIC	L1	S-62887	FM ANTENNA COIL ASSEMBLY
R1A			L2	S-62887	FM RF INPUT COIL ASSEMBLY
R1B	63-6480	50K DUAL BASS CONTROL	L3	S-62887	FM DET. COIL ASSEMBLY
R2A			L4	20-1256	TRAP COIL 10.7 MC
R2B	63-6480	50K DUAL TREBLE CONTROL	L5	1N T1	
R3A	63-6481	50K DUAL LOUDNESS CONTROL	L6	1N T1	
R3B			L7	S-62887	FM OSCILLATOR COIL ASSEMBLY
R4	63-6052	390 OHM	SE1	103-39	DIODE
R5	63-5944	1 OHM	T1	95-2322	1ST FM-I.F. TRANSFORMER 10.7 MC
R6	63-5944	1 OHM	TR1	121-383	FM-RF TRANSISTOR
R7	63-6052	390 OHM	TR2	121-428	FM-MIXER TRANSISTOR
R8	63-5944	1 OHM	TR3	121-432	FM-OSCILLATOR TRANSISTOR
R9	63-5944	1 OHM			
R10	63-6021	68 OHM ± 10%			
T1	95-2388	DRIVER TRANSFORMER			
T2	95-2388	DRIVER TRANSFORMER			
T3	95-2386	POWER TRANSFORMER			
SE1	212-27	SILICON RECTIFIER			
SE2	212-27	SILICON RECTIFIER			
SP1	49-1089	5 1/4" P.M. SPEAKER			
SP2	49-978	3 1/2" P.M. SPEAKER			
SP3	49-880	3 x 14 P.M. SPEAKER			
SP4	49-1089	5 1/4" P.M. SPEAKER			
SP5	49-978	3 1/2" P.M. SPEAKER			
M1	S-72500	HOUSING AND CABLE ASSEMBLY			
		S-72586			
C1	22-3258	34 PF DISC 5%			
C2	22-5164	1.2 PF GIMMICK 5%			
C3	22-3258	34 PF DISC 5%			
C4	22-3604	5.0 PF DISC 5%			

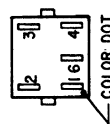
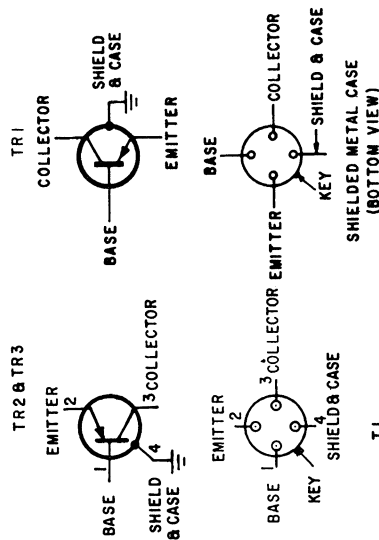


NOTES:

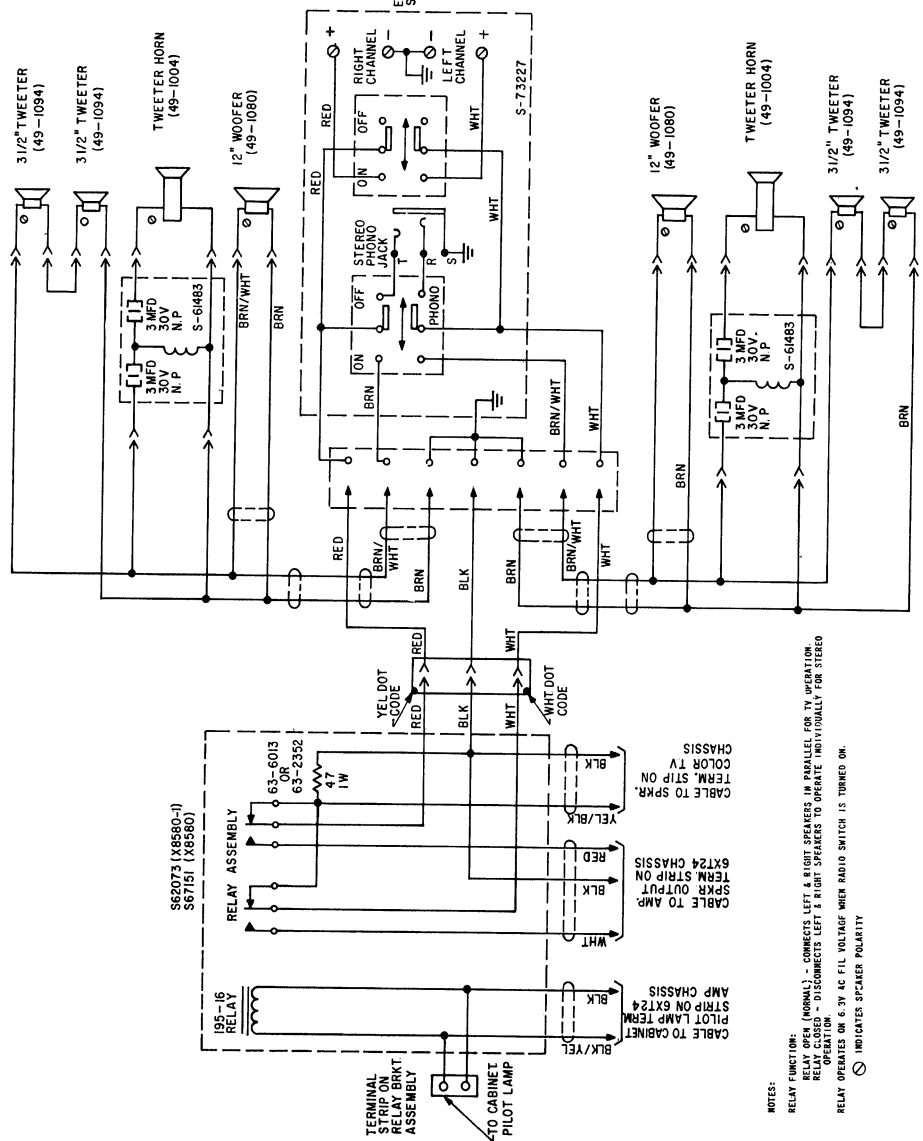
1. ALL RESISTORS $\pm 10\%$ TOLERANCE, 1/4 WATT, CARBON UNLESS OTHERWISE SPECIFIED.
2. RESISTANCE VALUES IN OHMS, CAPACITANCES IN MICROFARADS UNLESS OTHERWISE SPECIFIED.
3. ALL VOLTAGES ARE D.C. UNLESS OTHERWISE SPECIFIED.
4. D.C. VOLTAGES SHOWN ARE MEASURED WITH NO SIGNAL USING A VACUUM TUBE VOLT METER.
5. NO SIGNAL DRAIN IS 5 M.A.

DENOTES CHASSIS GROUND~

S-72586 FM TUNER



SPEAKER HOOKUP FOR MODELS X960, X962, X964, X966, X968, BRACKET SOCKET & CABLE ASSEMBLY



NOTES:

RELAY FUNCTION:

RELAY OPEN (NORMAL) - CONNECTS LEFT & RIGHT SPEAKERS IN PARALLEL FOR TV OPERATION.

RELAY CLOSED - DISCONNECTS LEFT & RIGHT SPEAKERS TO OPERATE INDIVIDUALLY FOR STEREO OPERATION.

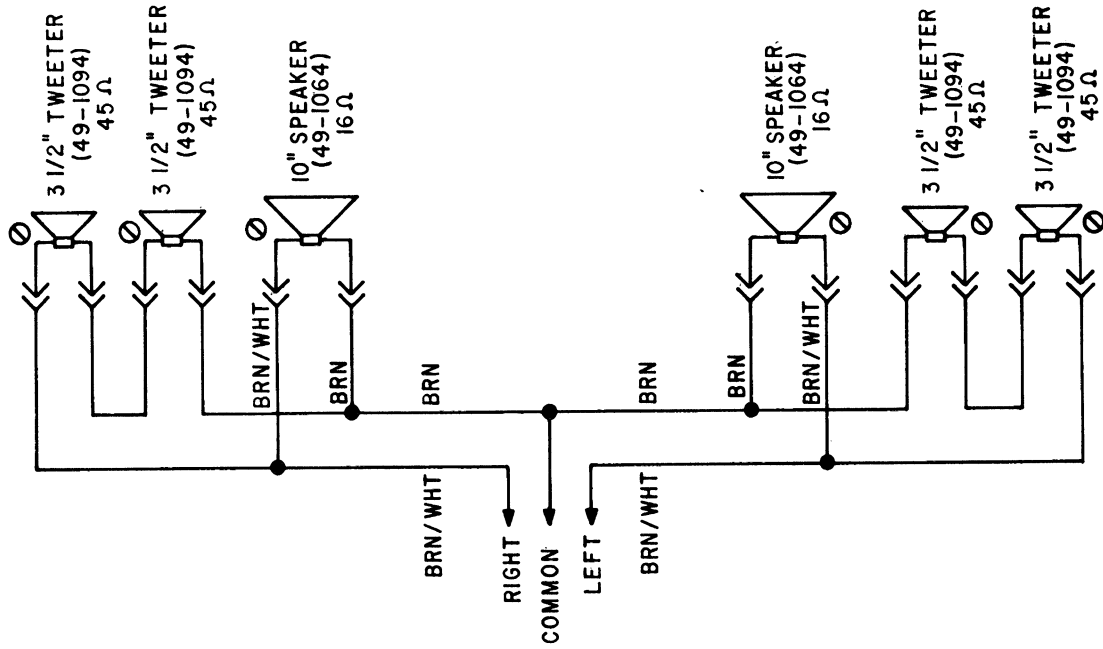
RELAY OPERATES ON 6.3V AC FIL VOLTAGE WHEN RADIO SWITCH IS TURNED ON.

⊗ INDICATES SPEAKER POLARITY

SPEAKER SCHEMATICS

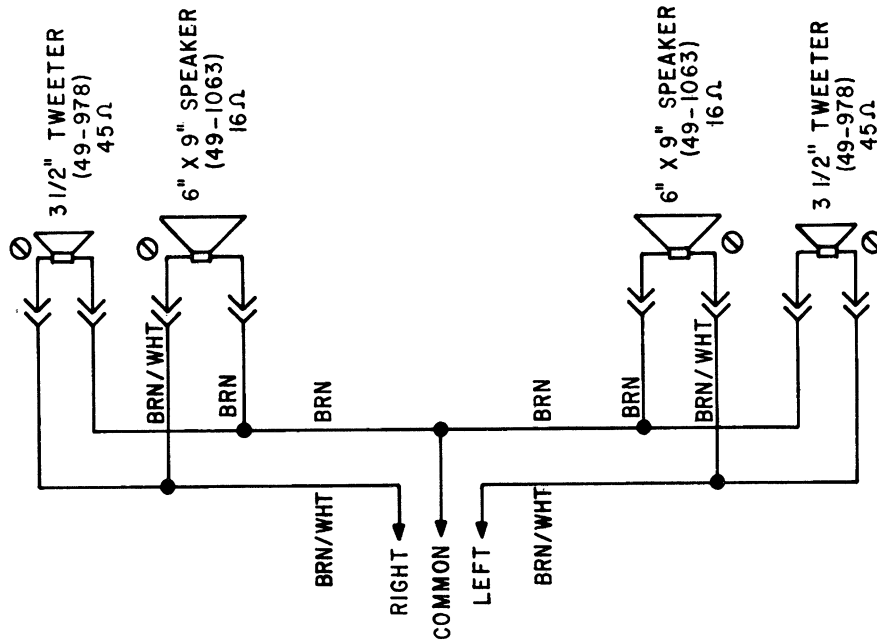
SPEAKER WIRING FOR MODELS

X920, X922
X924, X926



SPEAKER WIRING FOR MODELS

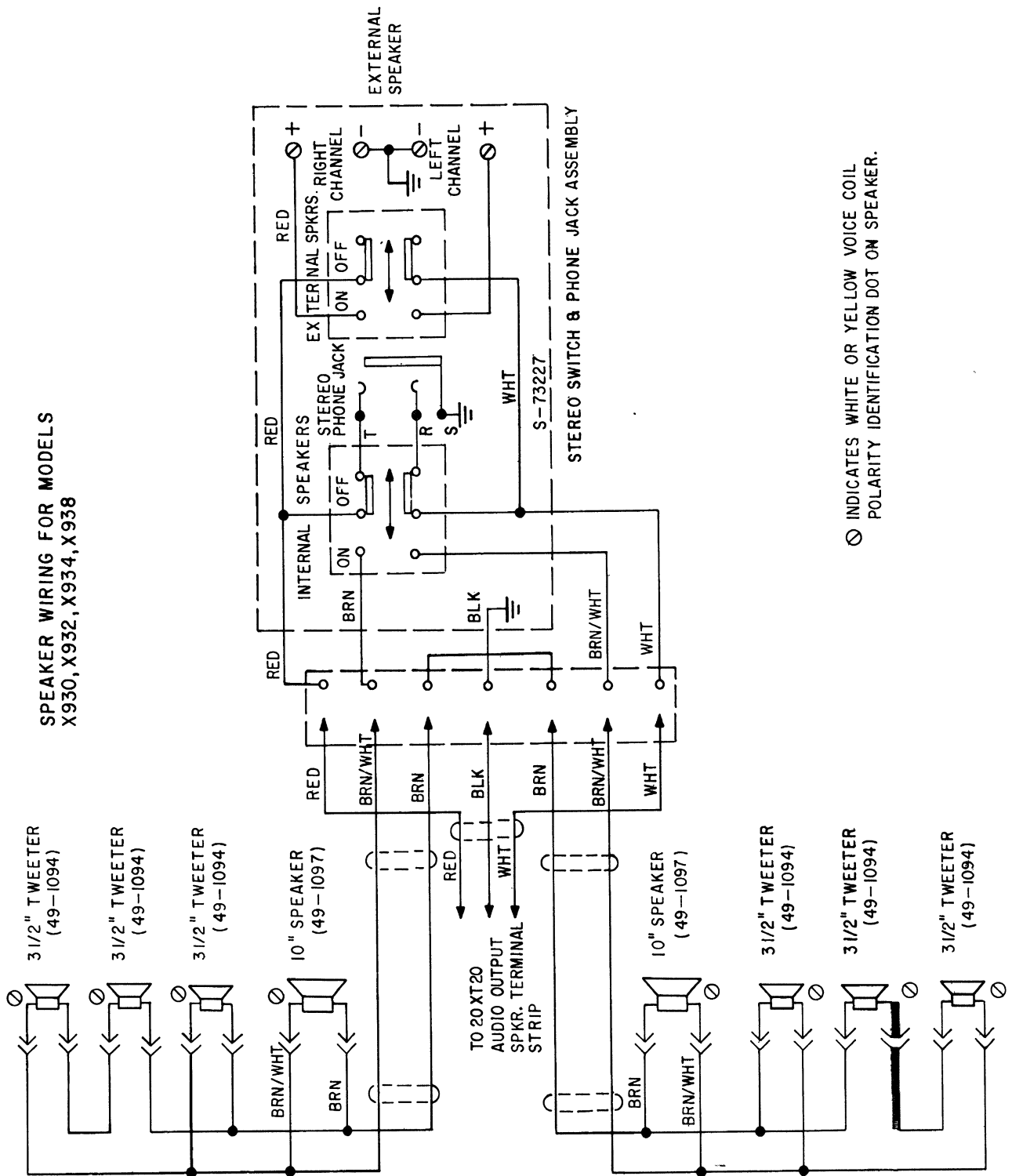
X804, X904
X805, X905
X806, X906



NOTE:
Ø INDICATES WHITE OR YELLOW VOICE COIL
POLARITY IDENTIFICATION DOT ON SPEAKER

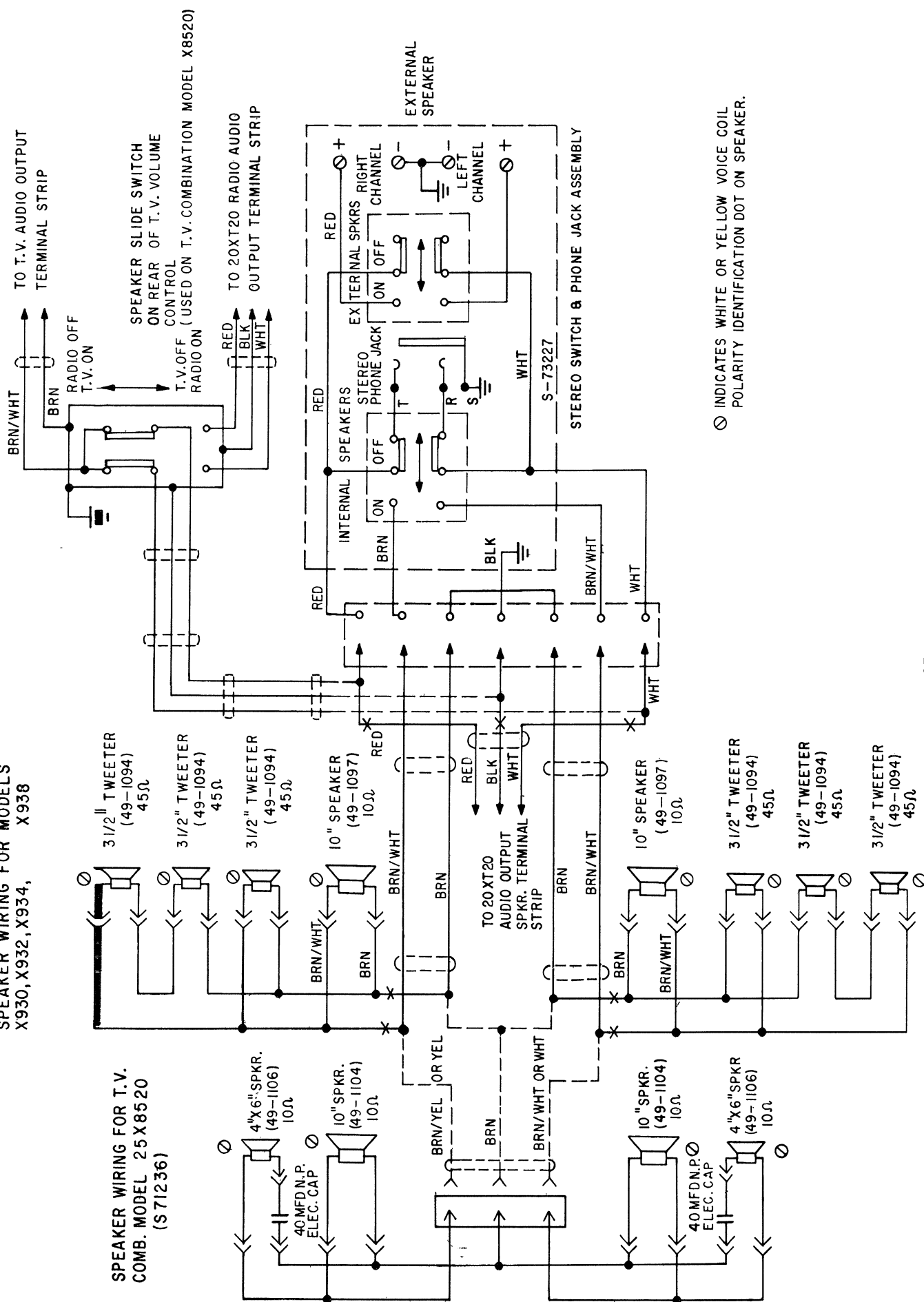
SPEAKER SCHEMATICS

SPEAKER WIRING FOR MODELS
X930, X932, X934, X938



SPEAKER SCHEMATICS

**SPEAKER WIRING FOR MODELS
X930, X932, X934,
X938**



⊖ INDICATES WHITE OR YELLOW VOICE COIL
POLARITY IDENTIFICATION DOT ON SPEAKER.

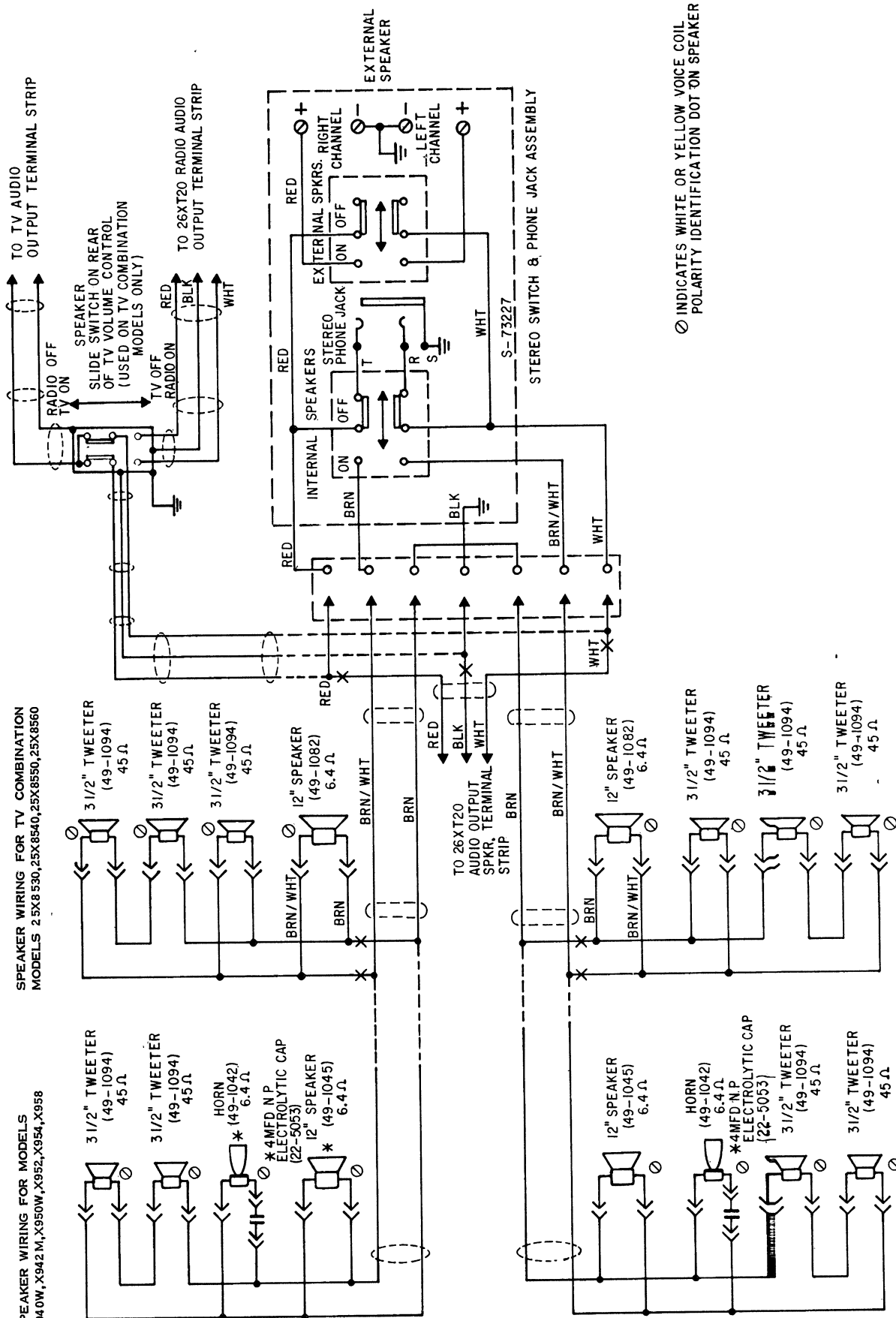
SPEAKER SCHEMATICS

SPEAKER WIRING SCHEMATIC FOR STEREO CONSOLES & TV COMBINATIONS USING THE 26XT20 CHASSIS

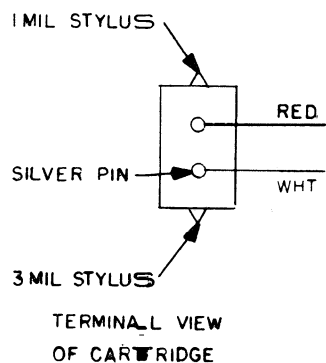
* MODEL (X958DE) SAME AS MODEL X940
EXCEPT USES 49-900 12" SPKR. 49-1004 HORN
AND 8MFD SERIES Crossover CAPACITOR

SPEAKER WIRING FOR MODELS
X940W, X942M, X950W, X952, X954, X958

SPEAKER WIRING FOR TV COMBINATION
MODELS 25X8530, 25X8540, 25X8550, 25X8560



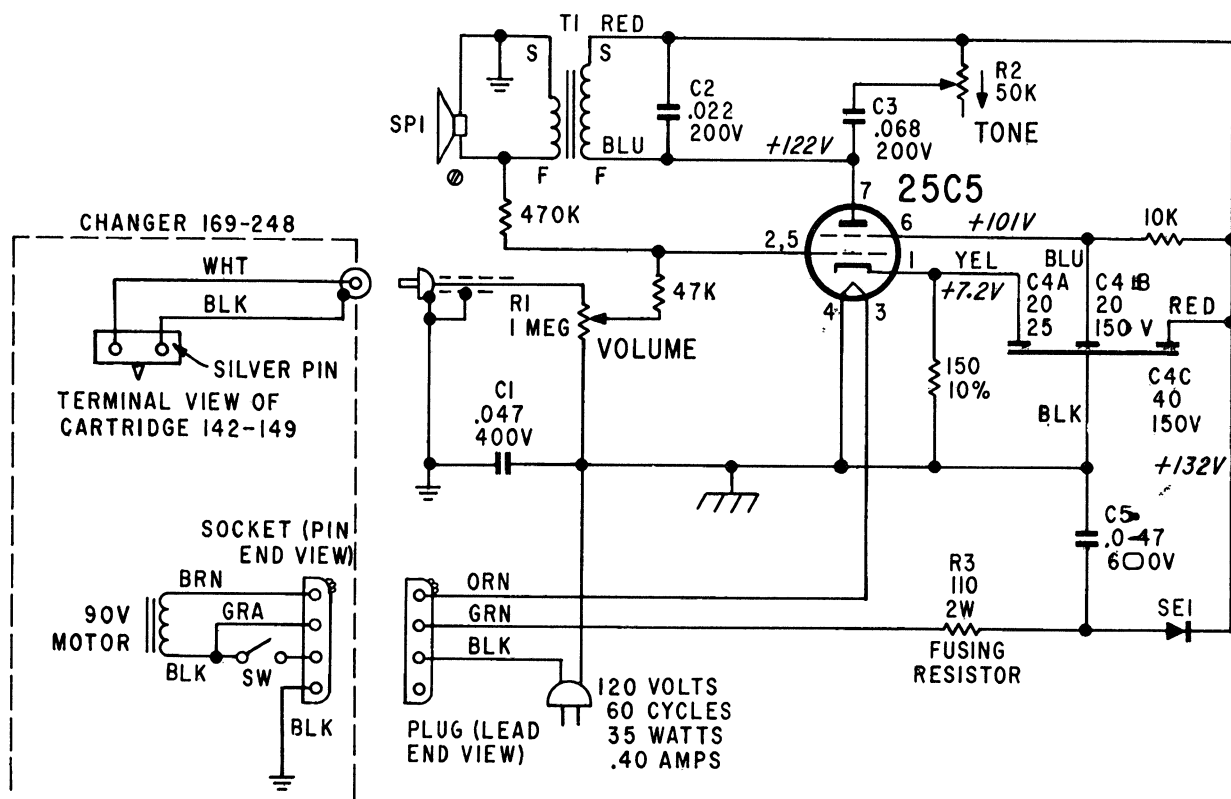
○ INDICATES WHITE OR YELLOW VOICE COIL
POLARITY IDENTIFICATION DOT ON SPEAKER




 DENOTES
COMMON RETURN
 
 DENOTES
CHASSIS

25C5

44

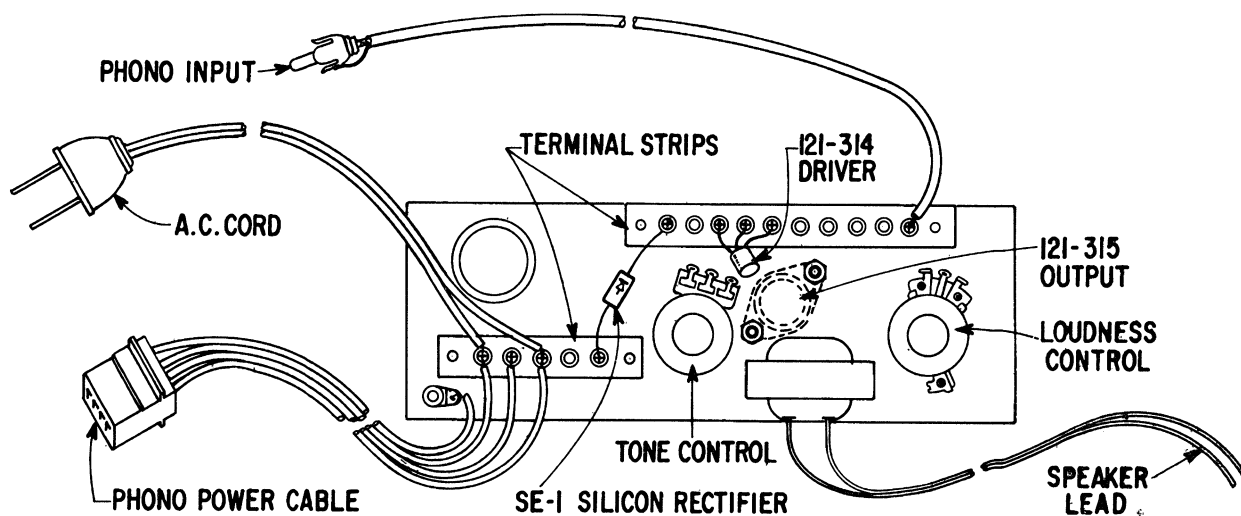


NOTES:

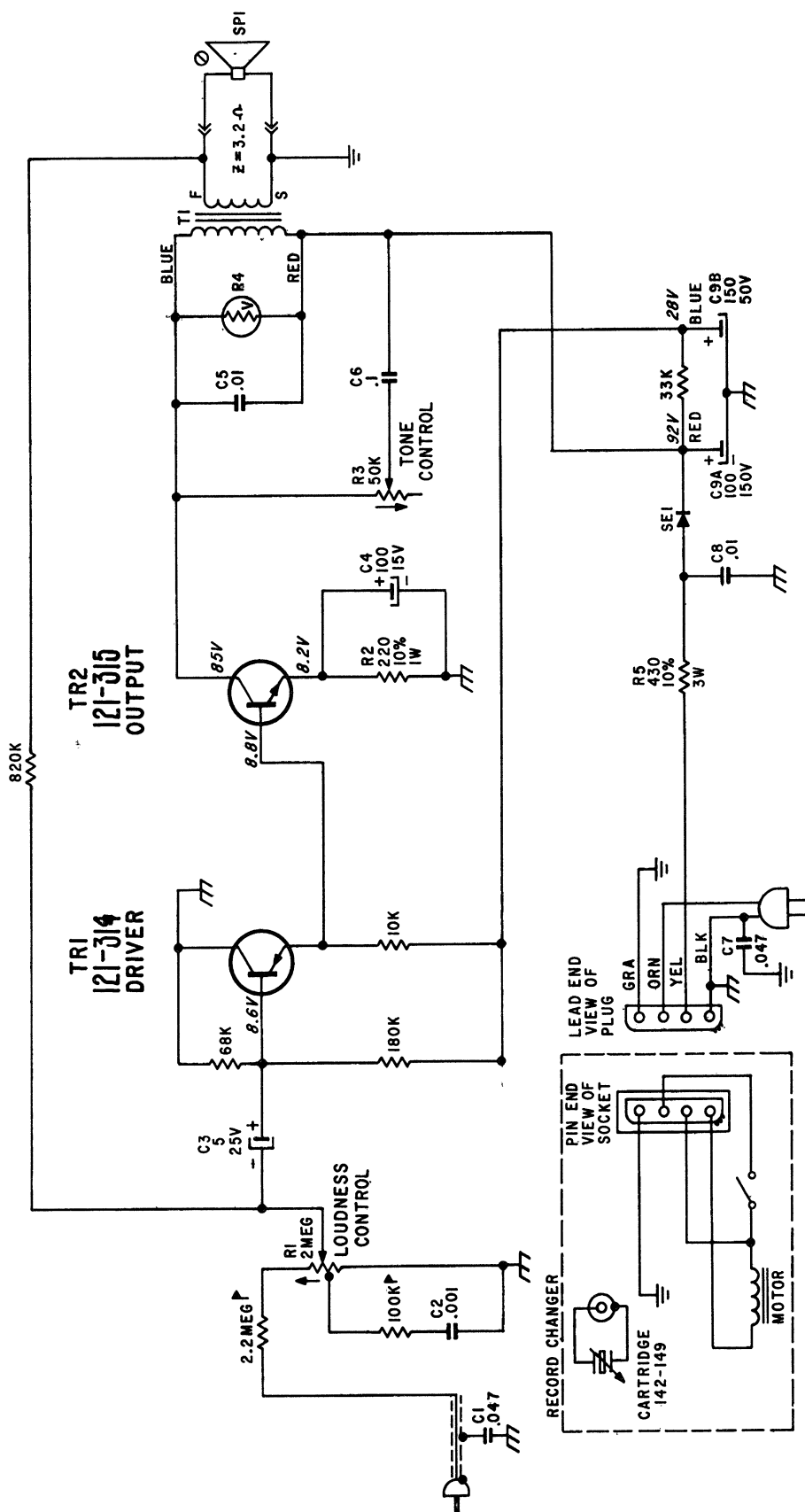
ARROW ON CONTROLS INDICATES CLOCKWISE ROTATION.
ALL VOLTAGES MEASURED FROM COMMON RETURN TO POINTS INDICATED WITH A VACUUM TUBE VOLTMETER.
ALL VOLTAGES ARE D.C. UNLESS OTHERWISE SPECIFIED.
ALL CAPACITOR VALUES IN MICROFARADS UNLESS OTHERWISE SPECIFIED.
ALL RESISTORS ARE $\pm 20\%$ TOLERANCE, 1/2 WATT CARBON UNLESS OTHERWISE SPECIFIED.

⊕ DENOTES COMMON RETURN B-
⊕ DENOTES CHASSIS
⊙ SPEAKER PHASING DOT

IN21 SCHEMATIC



2NT20 CHASSIS LAYOUT



NOTES:

ALL RESISTORS ARE 1/2 W ±10% UNLESS OTHERWISE SPECIFIED.

ALL CAPACITORS ARE IN MICROFARADS UNLESS OTHERWISE SPECIFIED.

ARROWS ON CONTROLS INDICATE COUNTERCLOCKWISE ROTATION.

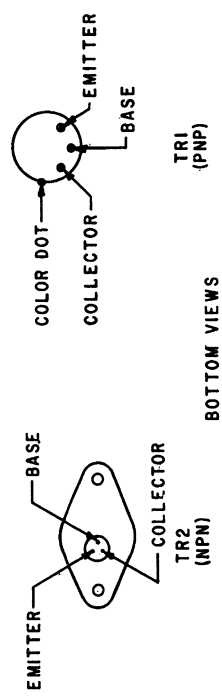
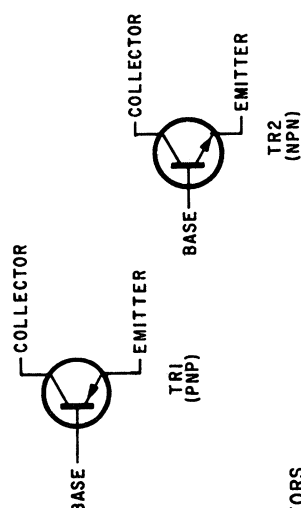
⊗ INDICATES SPEAKER POLARITY.

ALL VOLTAGES ARE D.C. UNLESS OTHERWISE SPECIFIED AND ARE MEASURED FROM B- TO POINTS INDICATED WITH A V.T.V.M.

⊥ DENOTES AMPLIFIER CHASSIS BASE

⊥ DENOTES B-

⊥ INDICATES 20% MAY BE USED.



TRANSISTORS

2N120S SCHEMATIC

2NT22

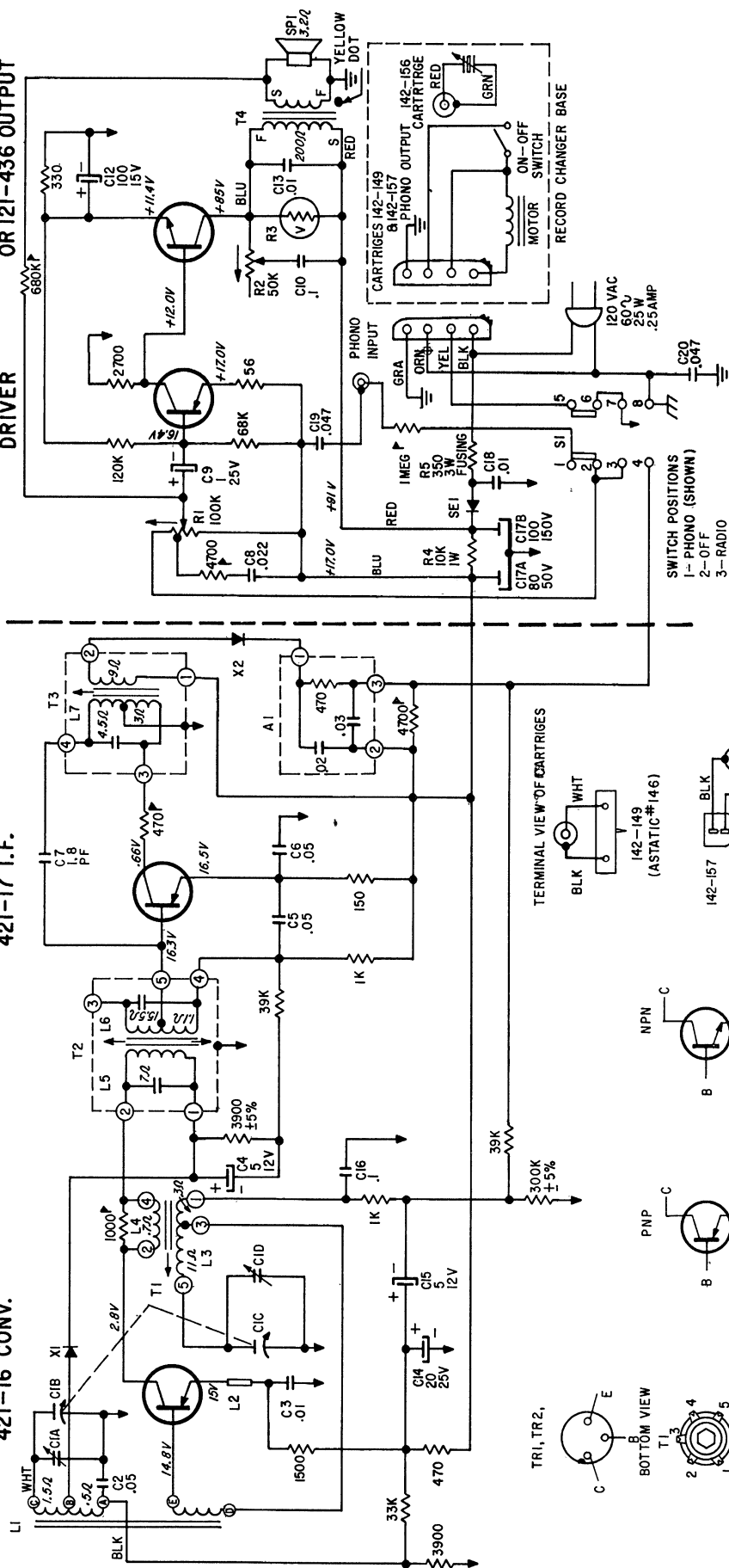
TR-1
121-312 OR
421-16 CONV.

TR-2
121-313 OR
421-17 I.F.

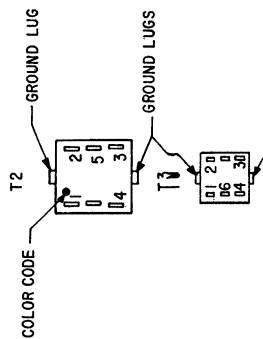
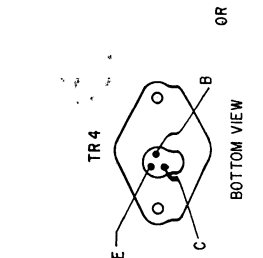
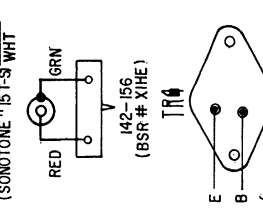
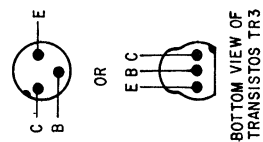
2NT21

TR-3
121-441
DRIVER

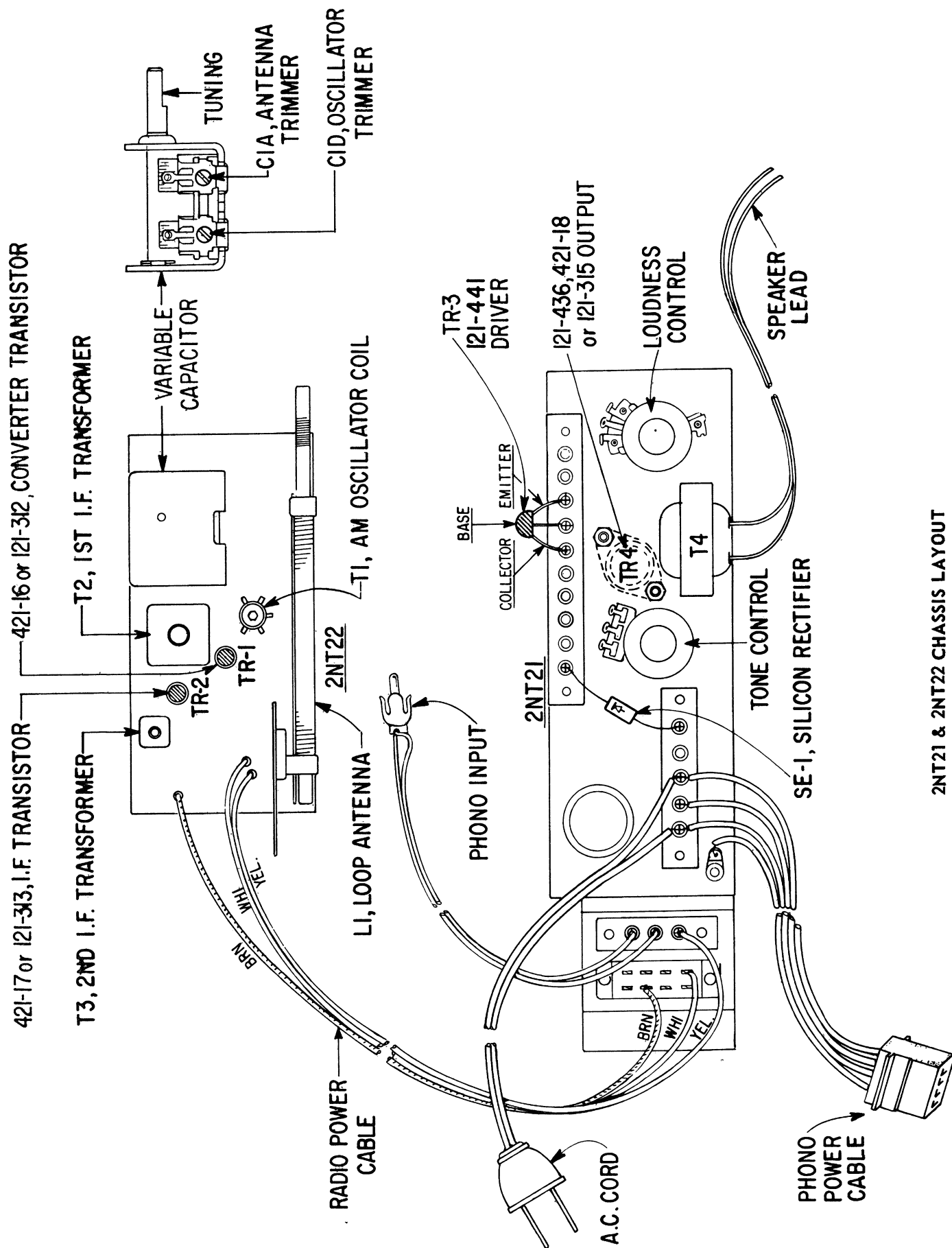
TR-4
121-18 OR 121-315
OR 121-436 OUTPUT



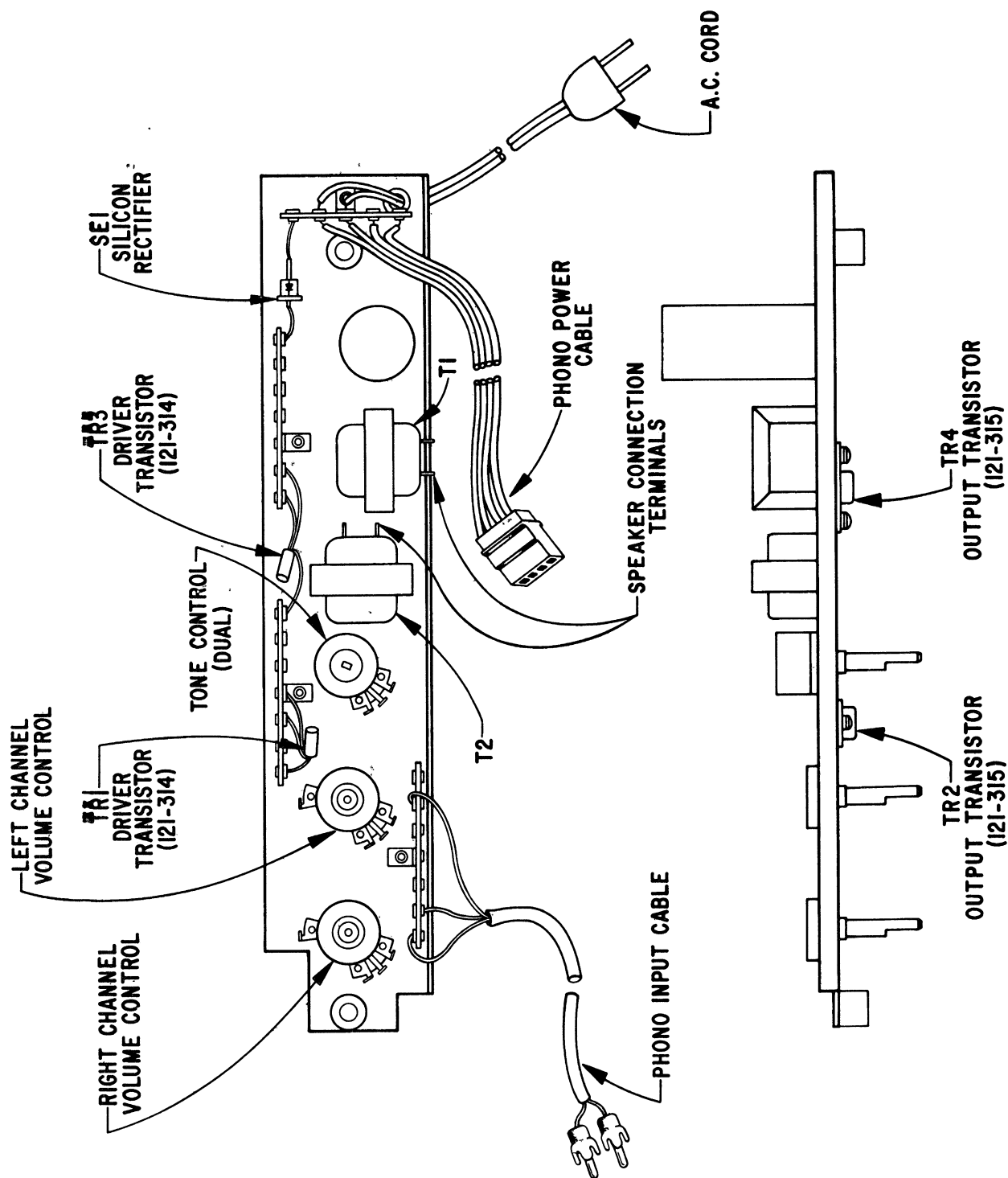
- NOTES:
1. I.F. TRANSFORMER NUMBERING STARTS WITH #1 TERMINAL AS FIRST TERMINAL CLOCKWISE FROM MARKER CODE TERMINAL AS VIEWED FROM BOTTOM OF CHASSIS.
 2. I.F. FREQUENCY 455KC.
 3. ALL RESISTORS $\pm 10\%$ TOLERANCE, $1/2$ WATT, CARBON UNLESS OTHERWISE SPECIFIED.
 4. RESISTANCE VALUES IN OHMS, CAPACITANCE IN MICROFARADS UNLESS OTHERWISE SPECIFIED.
 5. ALL VOLTAGES ARE D.C. UNLESS OTHERWISE SPECIFIED.
 6. D.C. VOLTAGES SHOWN ARE MEASURED WITH NO SIGNAL USING A VACUUM TUBE VOLTMETER.
 7. VIEWED FROM THE FRONT, ARROW ON VOLUME CONTROL INDICATES CLOCKWISE ROTATION.
 8. DENOTES B-W.
 9. F INDICATES $\pm 20\%$ TOLERANCE
 10. \downarrow DENOTES COMMON CONNECTION
 11. \equiv DENOTES CHASSIS
 12. \bullet INDICATES COLLECTOR OF TRANSISTOR.



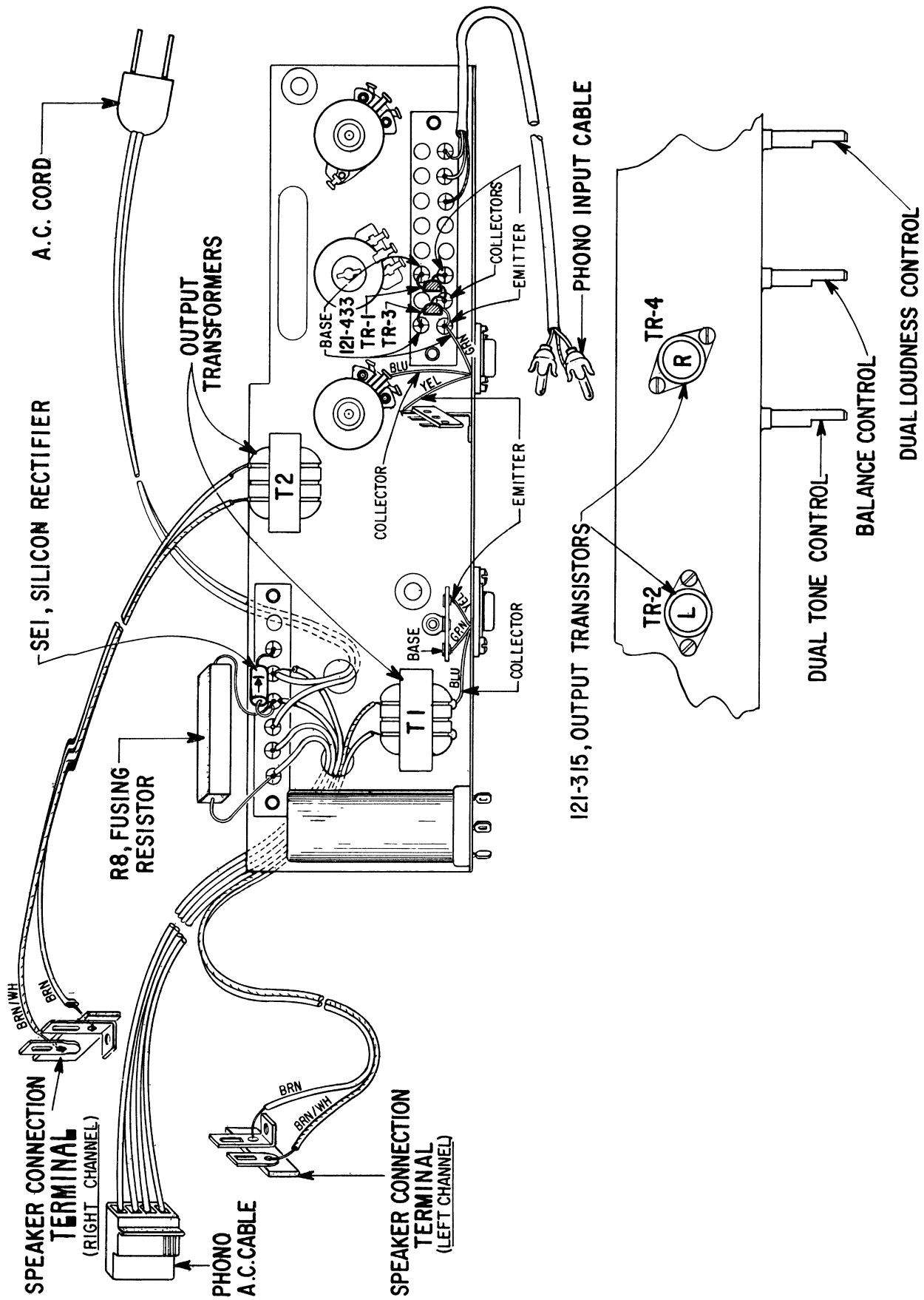
2NT21 & 2NT22 SCHEMATIC



2NT21 & 2NT22 CHASSIS LAYOUT

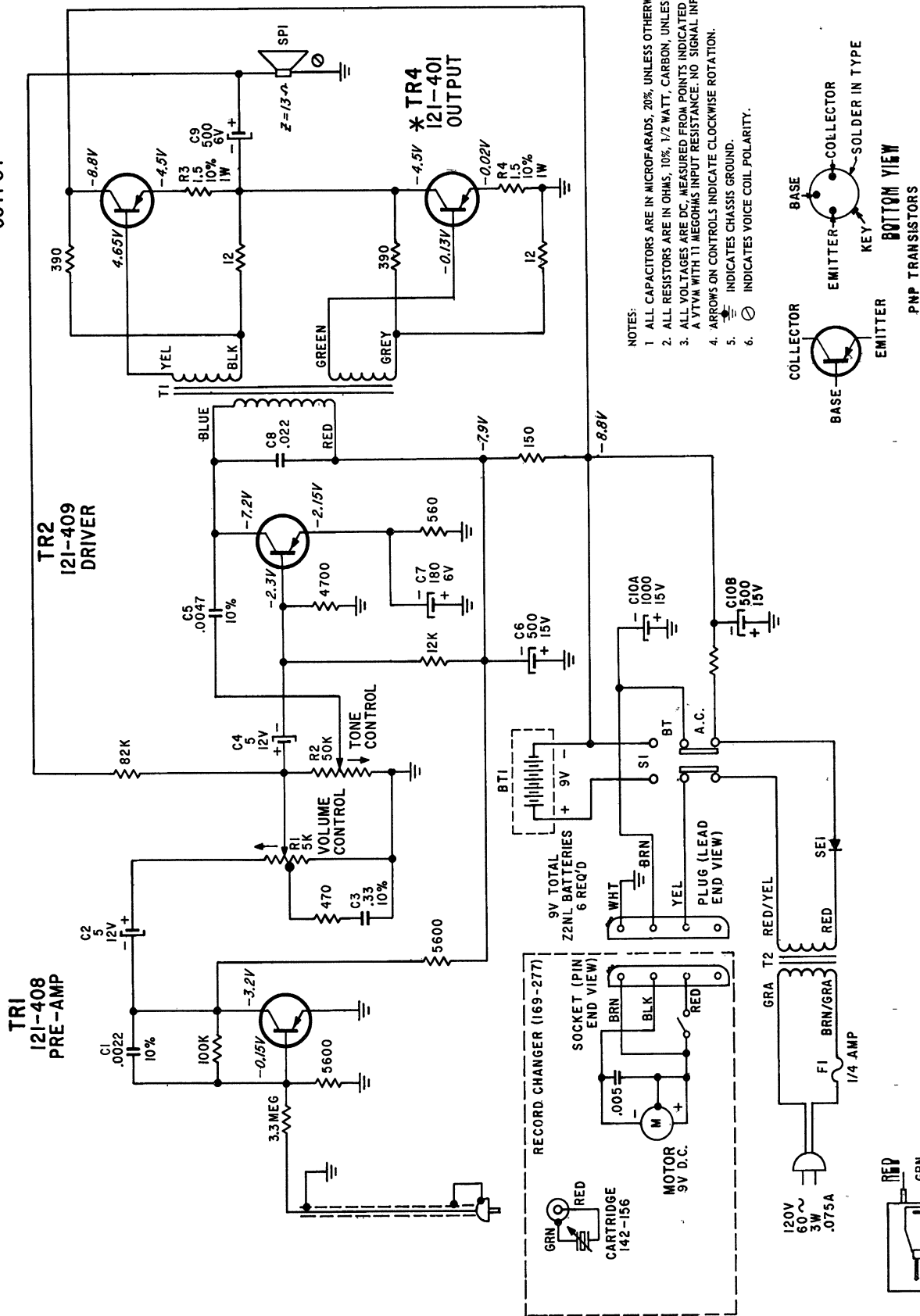


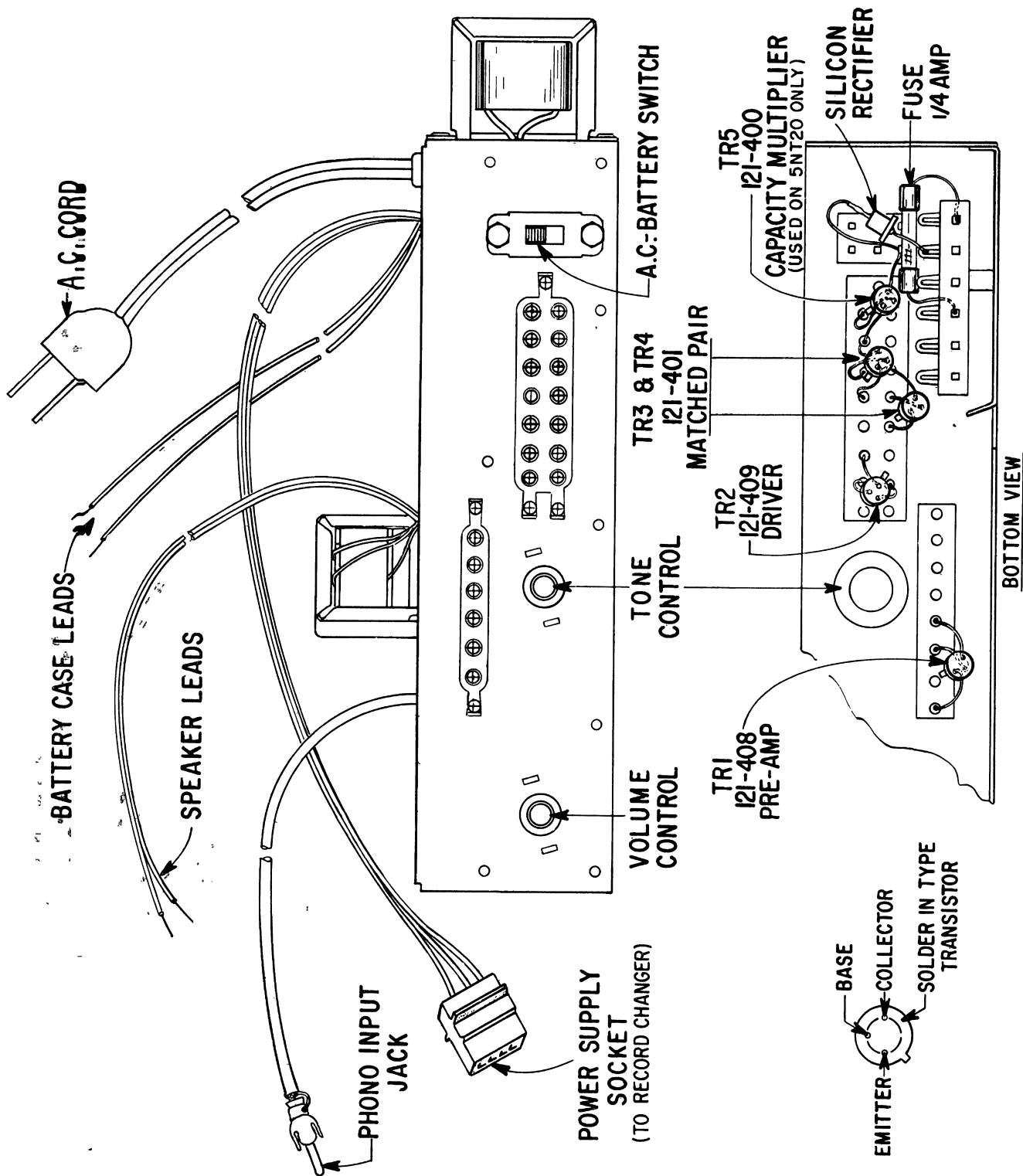
4NT20 CHASSIS LAYOUT



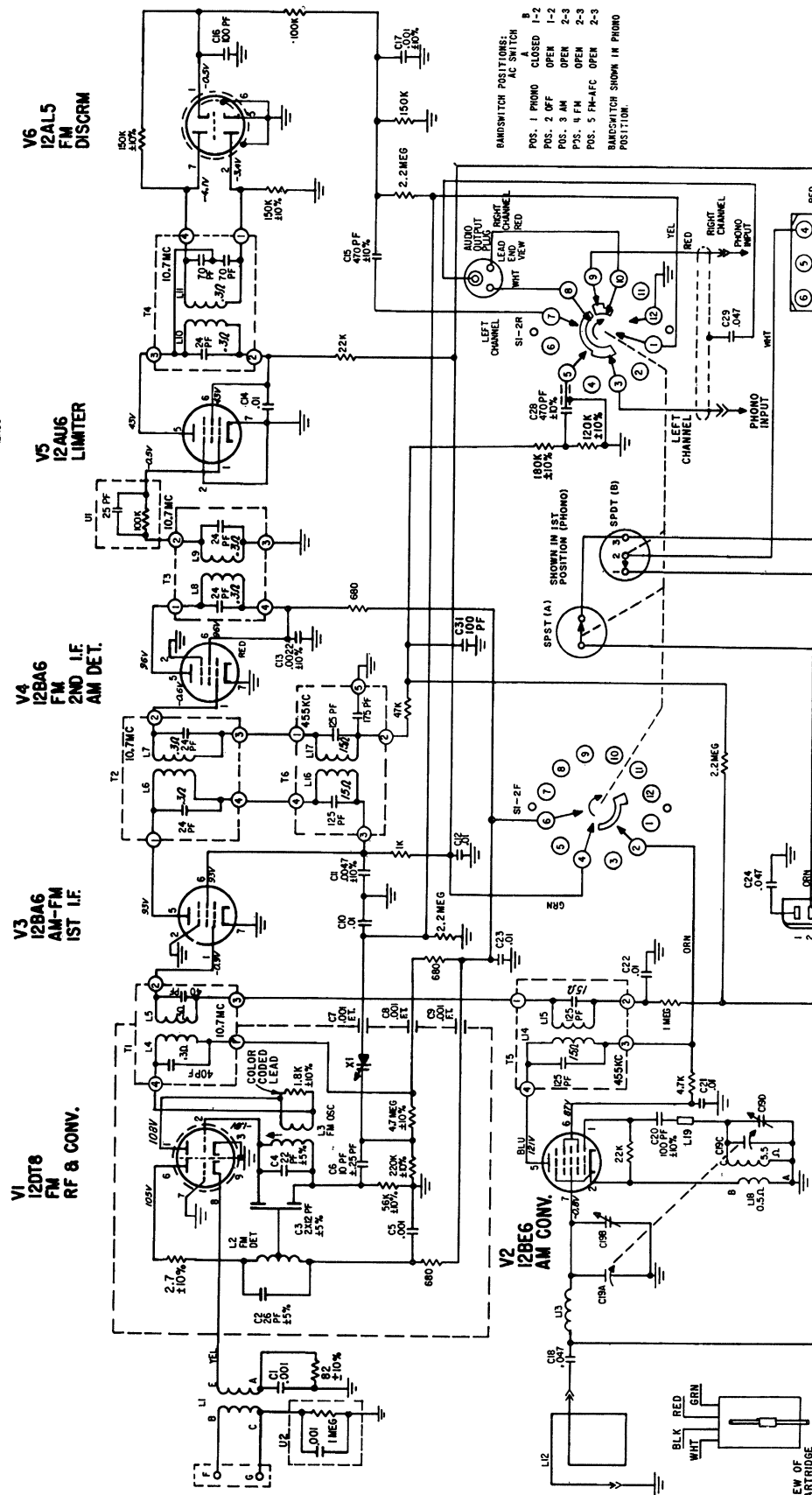
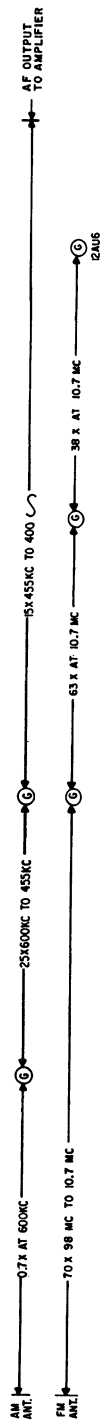
4NT21 CHASSIS LAYOUT

* TR3 & TR4 ARE
12I-40I
OUTPUT
MATCHED PAIR.



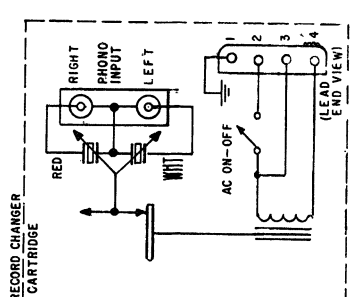


4NT22 CHASSIS LAYOUT

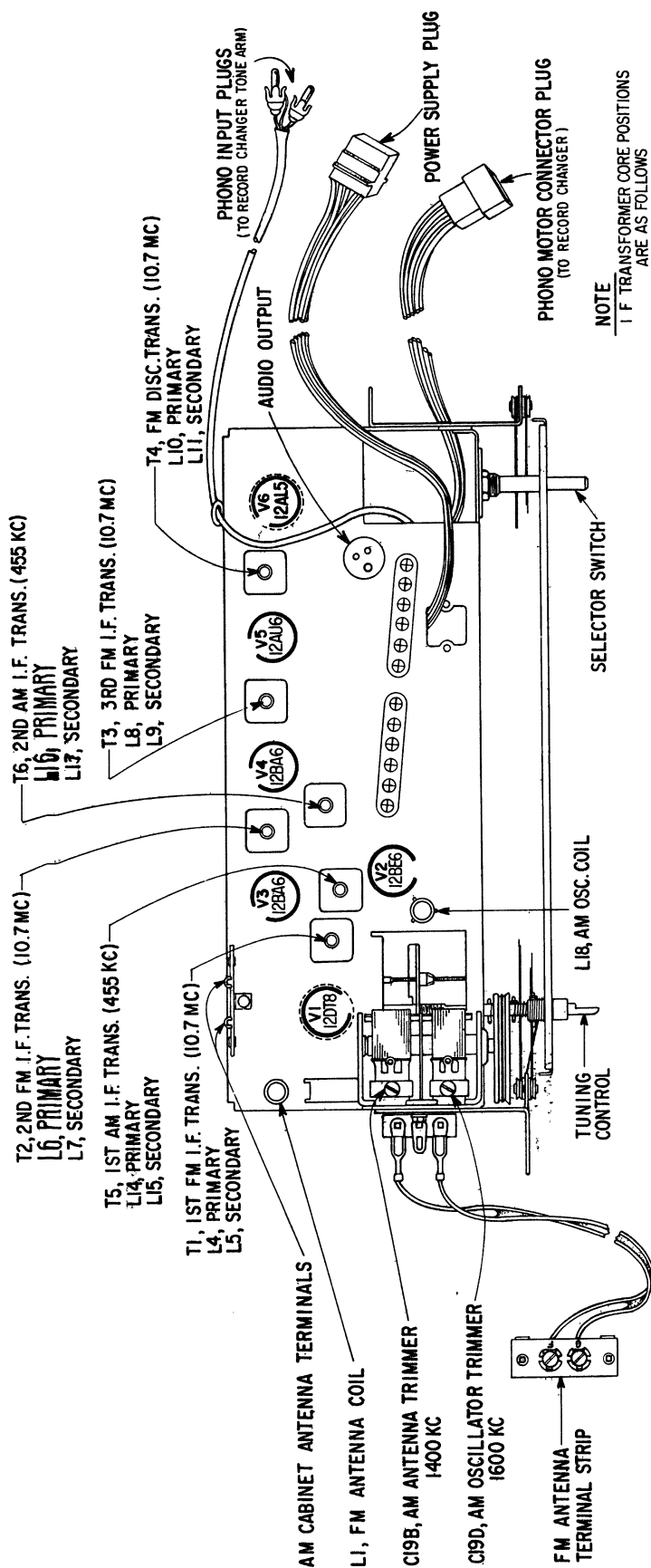


RADIO SWITCH POSITIONS:
AC SWITCH
POS. 1 PHONO CLOSED 1-2
POS. 2 OFF OPEN 1-2
POS. 3 AM OPEN 2-3
POS. 4 FM OPEN 2-3
POS. 5 FM-AFC OPEN 2-3
BARO SWITCH SHOWN IN PHONO POSITION.

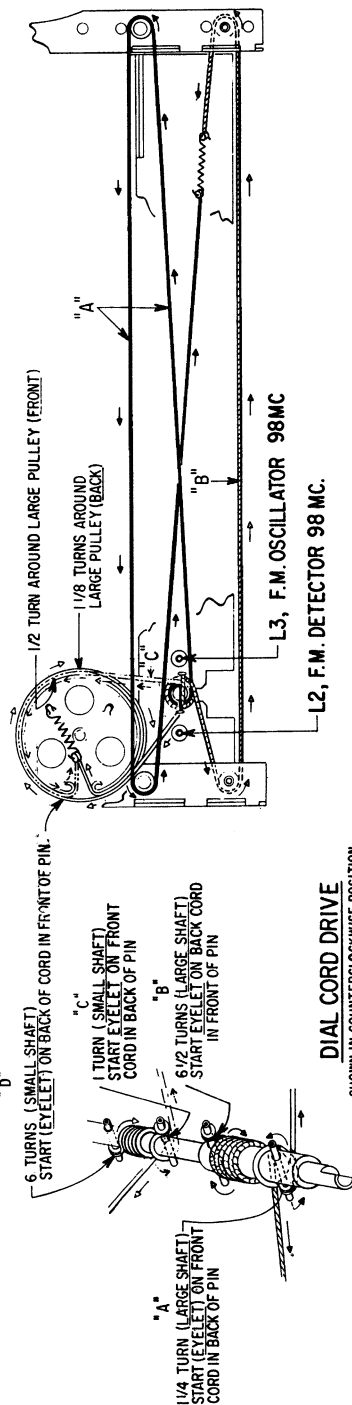
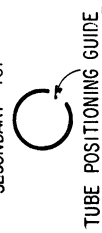
NOTES:
ARROWS ON CONTROLS INDICATE CLOCKWISE ROTATION.
ALL RESISTORS ARE $\pm 20\%$ TOLERANCE, 1/2 WATT, CARBON UNLESS OTHERWISE SPECIFIED.
ALL VOLTAGES ARE D.C. UNLESS OTHERWISE SPECIFIED.
ALL VOLTAGES ARE MEASURED WITH POINTS INDICATED TO CHASSIS WITH A V.T.V.M.
DENOTES CHASSIS
VOLTAGES ARE MEASURED IN THE F.M. POSITION.
I.F. FREQUENCY: FM 10.7 MC
TUNING RANGE: FM 88 - 108 MC
ALL CAPACITOR VALUES IN MICROFARADS UNLESS OTHERWISE SPECIFIED.
ALL CAPACITOR TOLERANCES $\pm 20\%$ UNLESS OTHERWISE SPECIFIED.



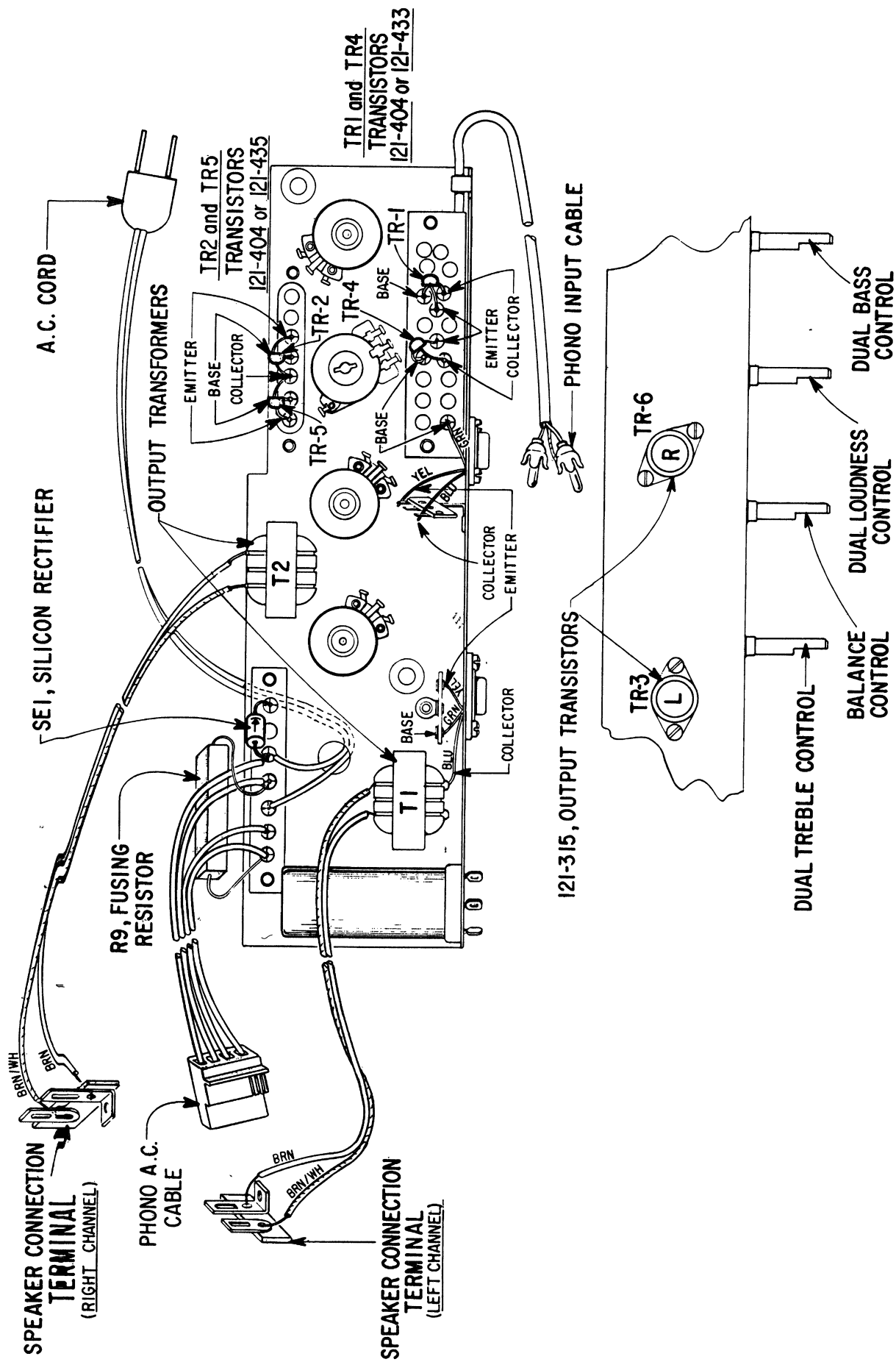
6L01Z9 SCHEMATIC (FOR ALIGNMENT SEE HF14 PG. 35)



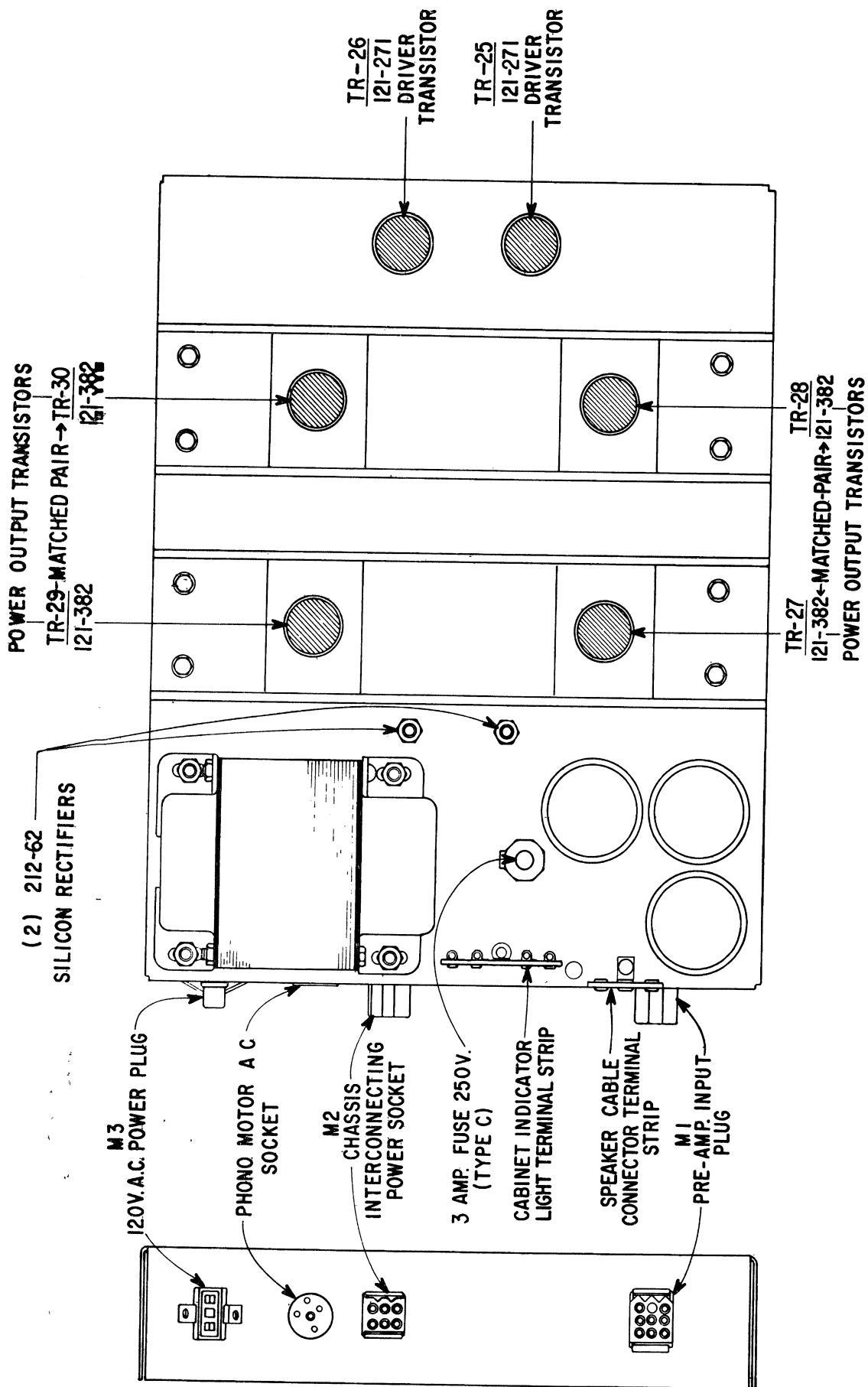
NOTE
 I F TRANSFORMER CORE POSITIONS
 ARE AS FOLLOWS
 PRIMARY - BOTTOM
 SECONDARY - TOP



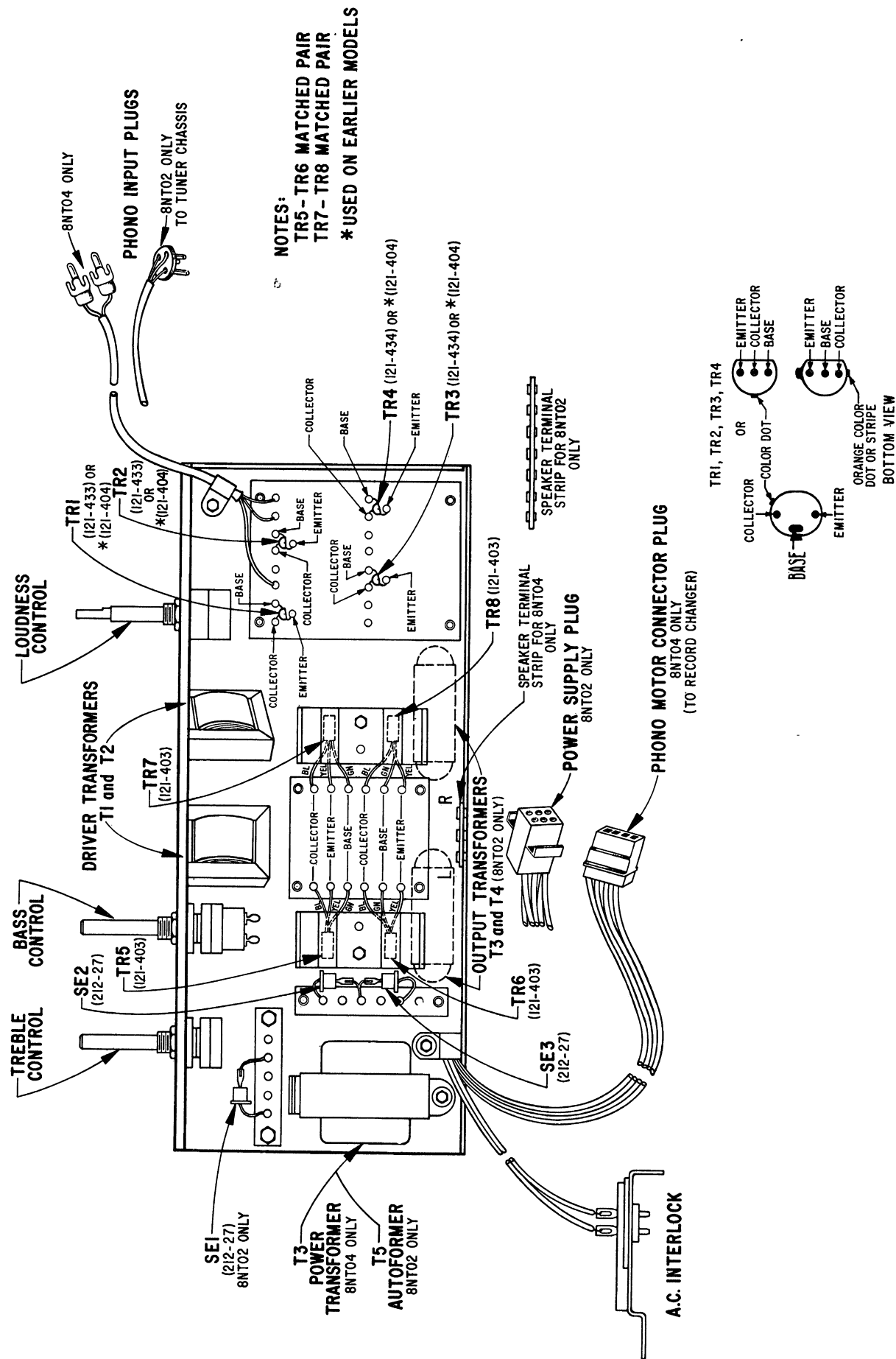
6L01Z9 TUBE LAYOUT



6NT20 CHASSIS LAYOUT

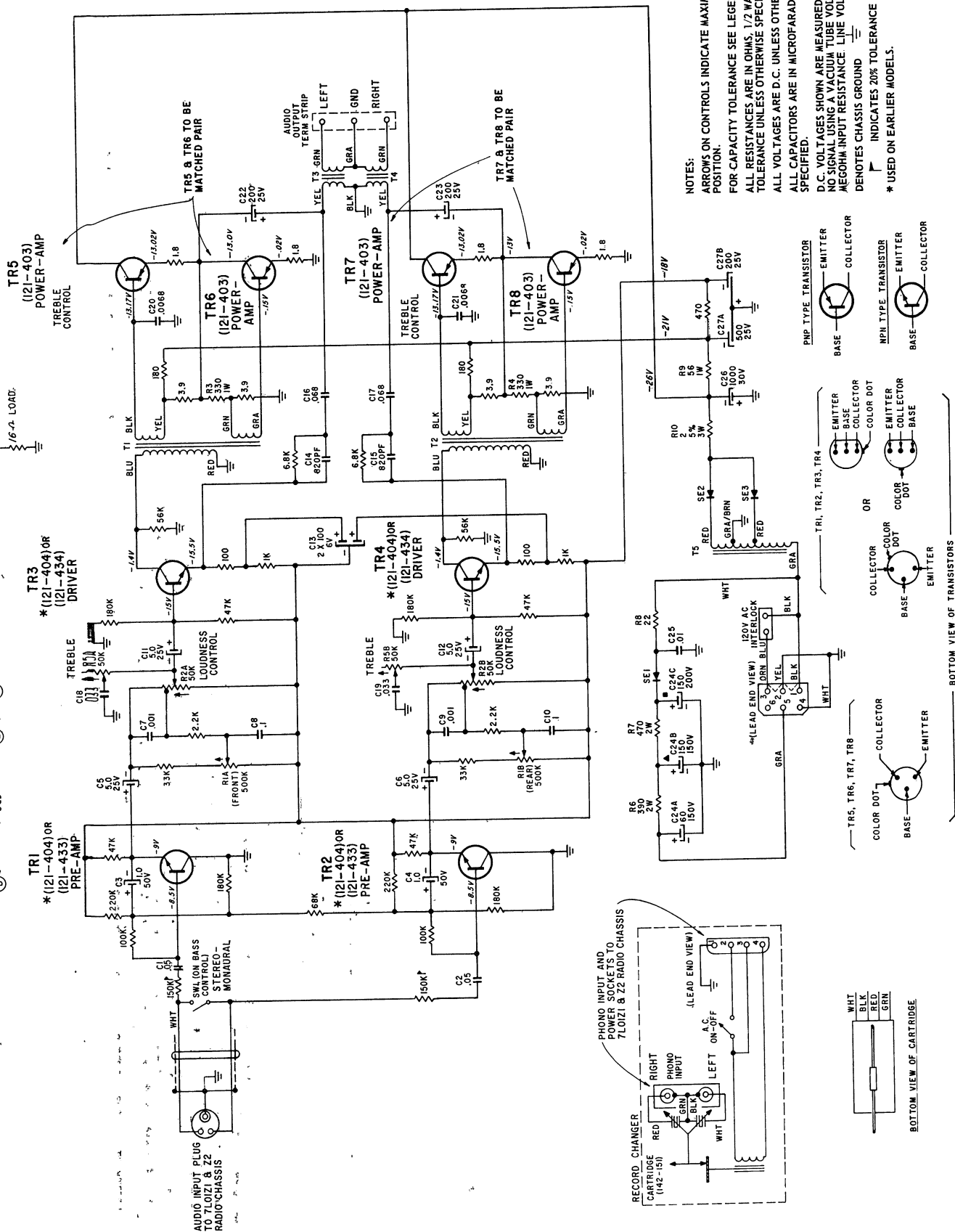


6XT24 CHASSIS LAYOUT



8NT02 & 8NT04 CHASSIS LAYOUT

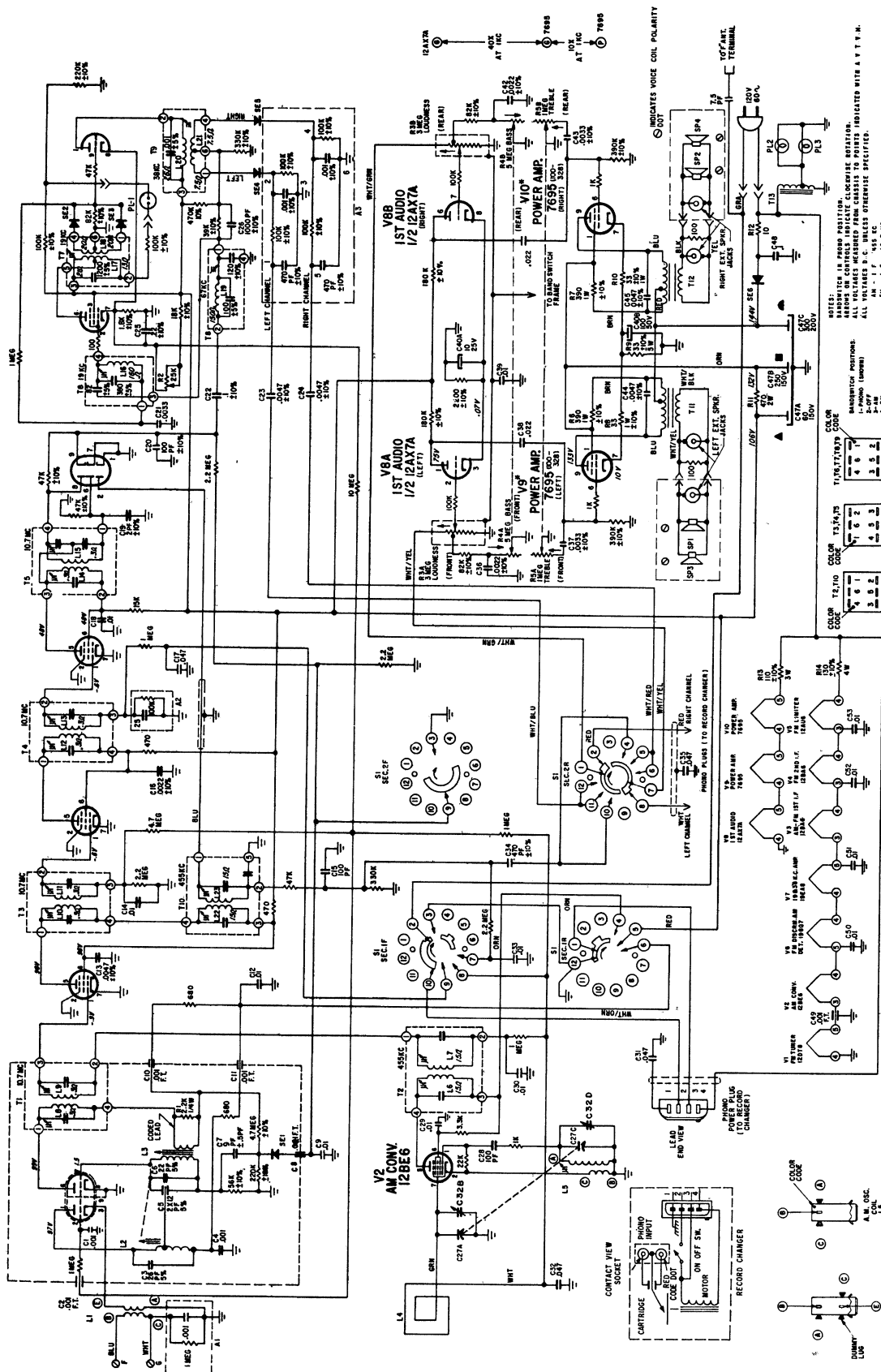
0 db — E — — — — — #3/db — B — — — — — 16-4 LOAD



8NT02 SCHEMATIC

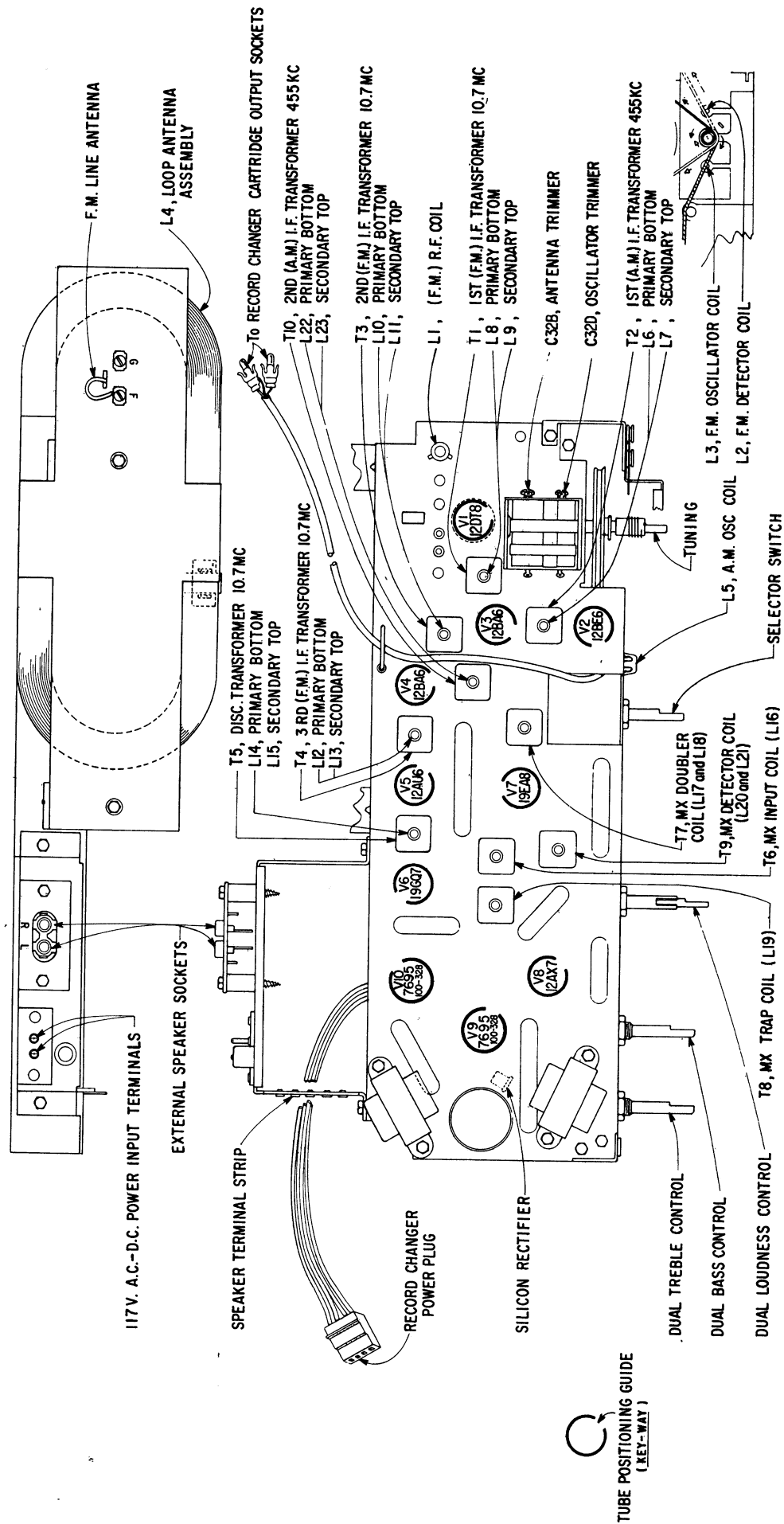


V1 FM TUNER 12DT8
V3 AM-FM 1ST IF 12BA6
V4 FM 2ND IF 12BA6
V5 FM LIMITER 12AU6
V6 FM DISCR. AM DET. 19GQ7
V7A 19AC AMP. 1/2 19CA6
V7B 38KC AMP. 1/2 19CA6



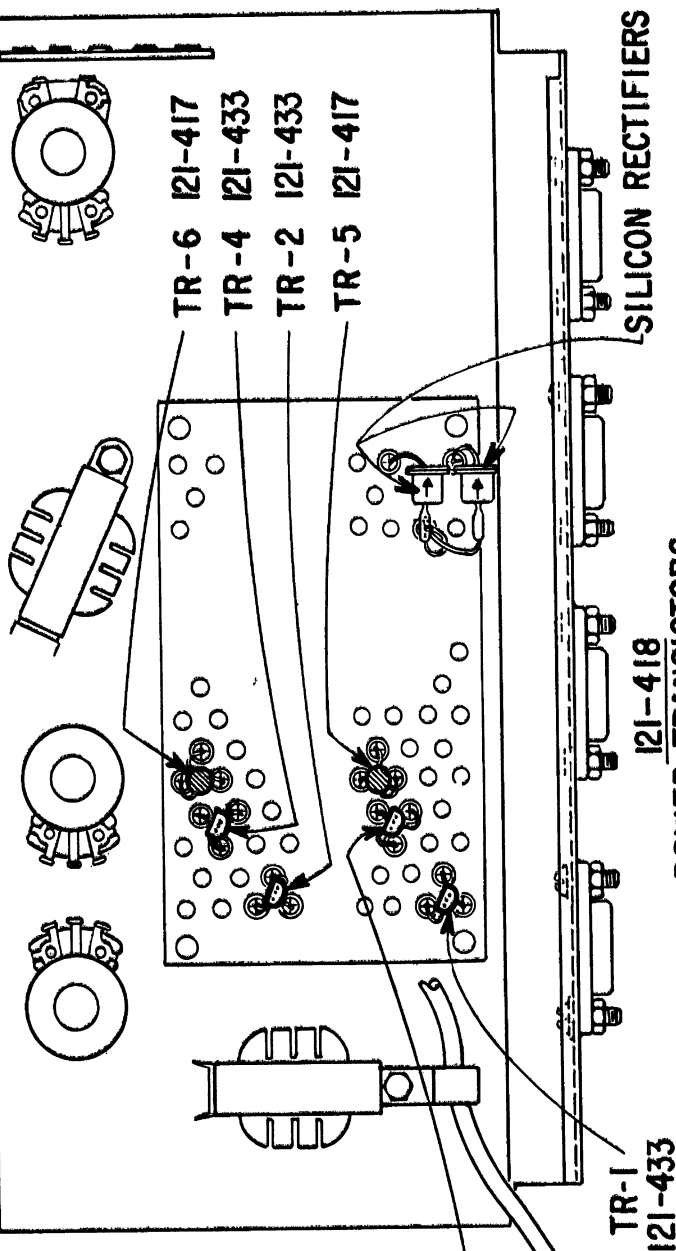
10L02Z SCHEMATIC

NOTES:
1. RADIOGRAPHIC POSITION: CLOCKWISE ROTATION.
2. ALL VOLTAGES MEASURED FROM CHASSIS TO POINTS INDICATED WITH A + V T M.
3. ALL CAPACITANCE VALUES IN MICROFARADS UNLESS OTHERWISE SPECIFIED.
4. ALL RESISTANCE VALUES IN OHMS UNLESS OTHERWISE SPECIFIED.
5. BOTH OUTPUT TUBES (V7A & V7B) ON ANY GIVEN CHASSIS MUST HAVE IDENTICAL COLUMN DATA ON THEIR EXHAUST TIPS.



10L02Z CHASSIS LAYOUT

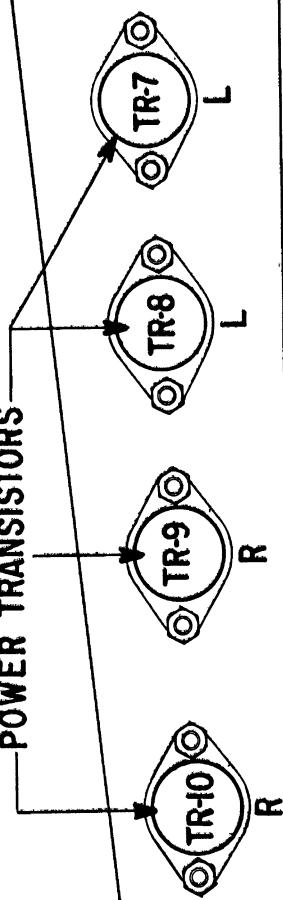
SPEAKER TERMINAL STRIP



POWER TRANSISTORS

12I-418

TR-1
12I-433

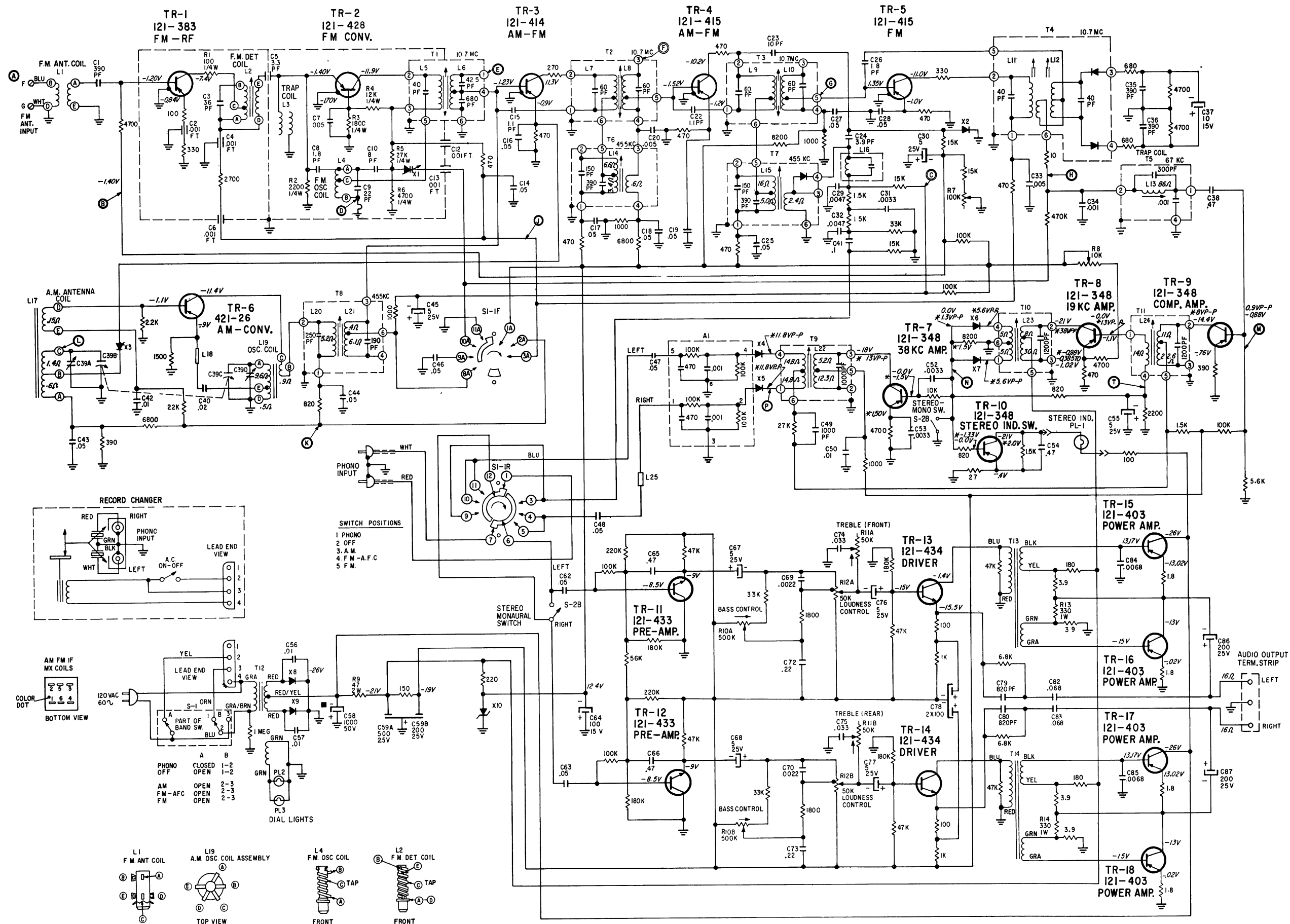


BALANCE AND
LOUDNESS CONTROL

TREBLE CONTROL

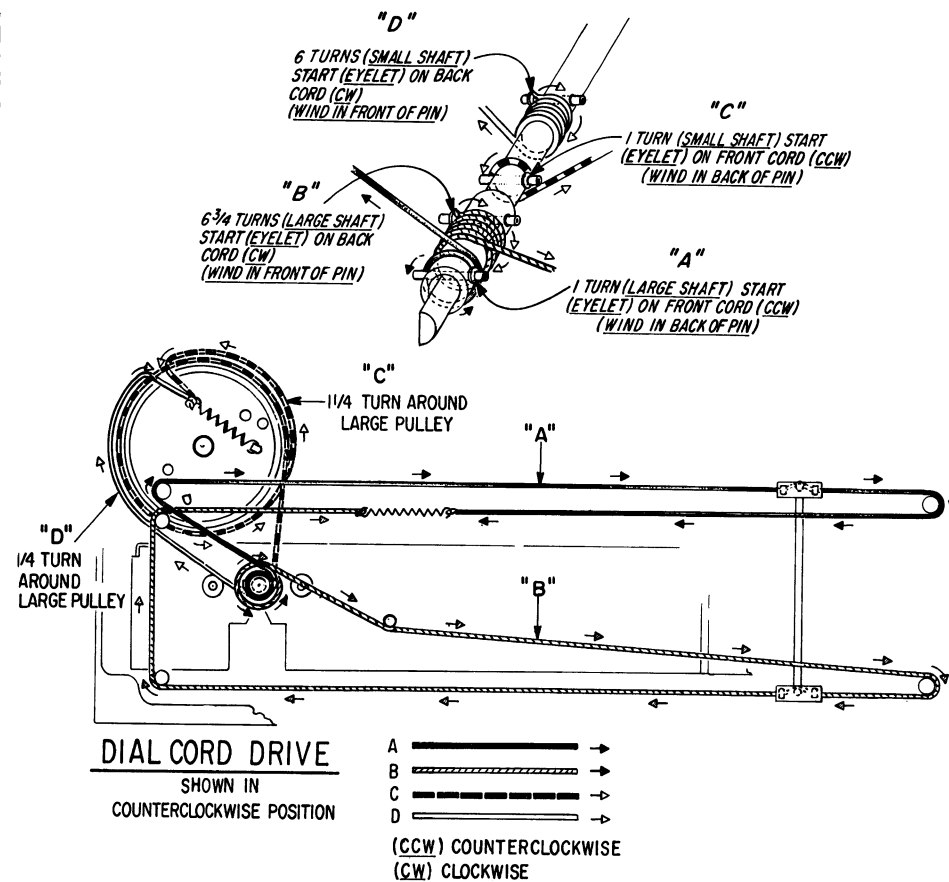
BASS CONTROL

NOTES

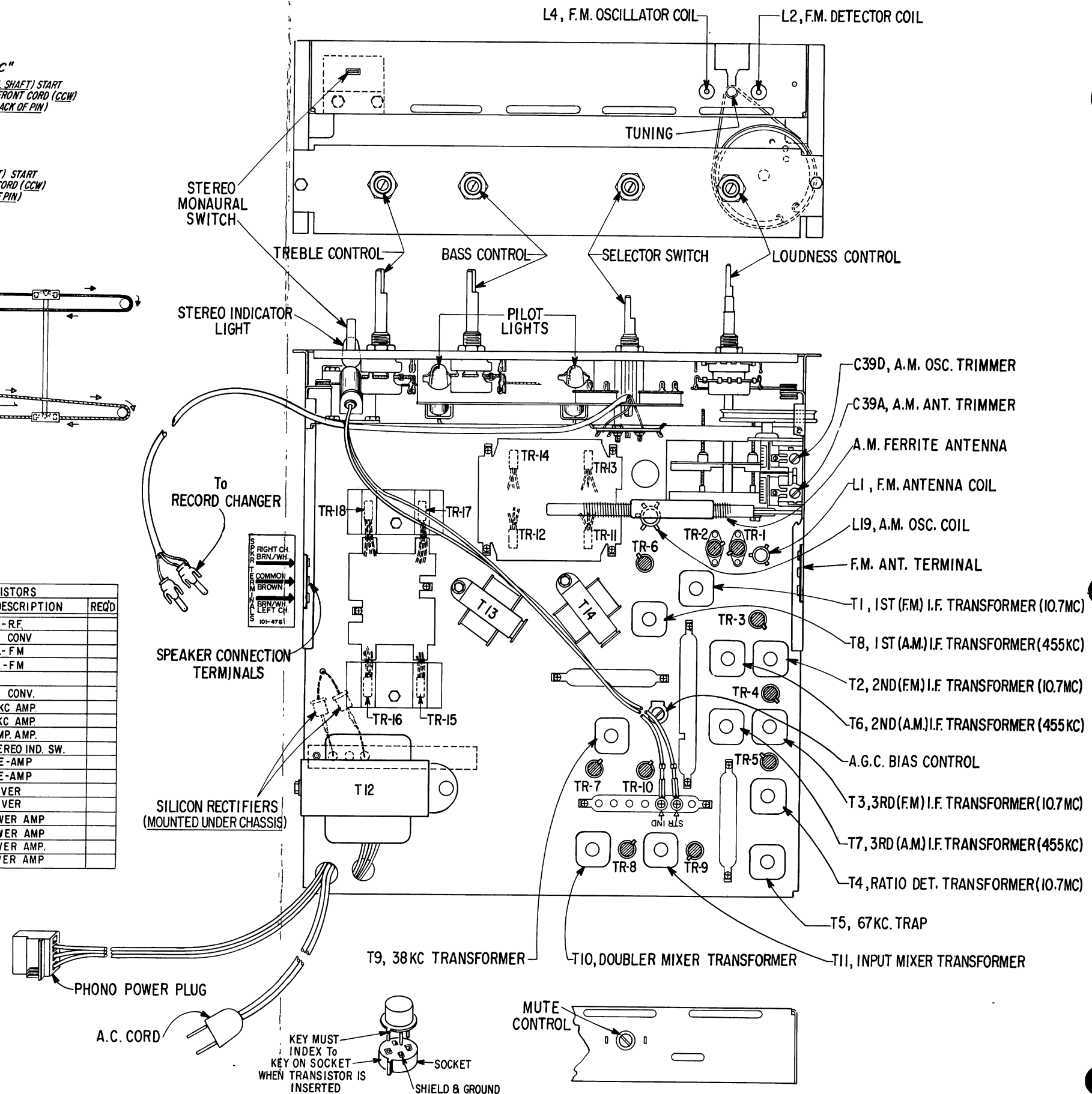


18XT20 & 18XT20Z SCHEMATIC

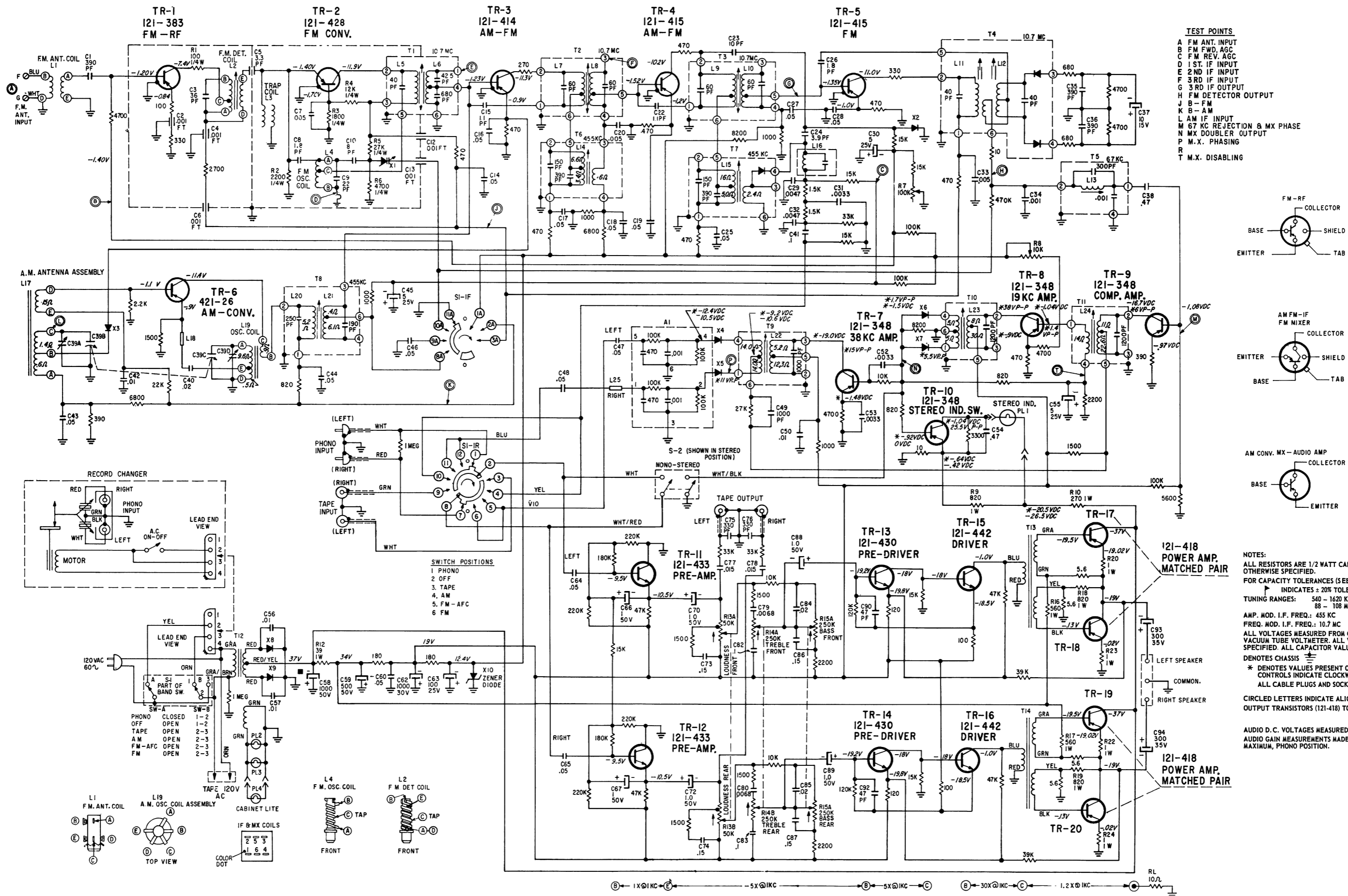
ITEM NO.	PART NO.	DESCRIPTION	ITEM NO.	PART NO.	DESCRIPTION
C1	22-3177	390 PF DISC ±10%	C83	22-3630	.068 MFD MYLAR
C2	22-4613	.001 F.T.	C84	22-5021	.0068 MFD DISC
C3	22-5321	36 PF DISC ±5%	C85	22-5021	.0068 MFD DISC
C4	22-4613	.001 F.T. ±20%	C86	22-5175	200 MFD ELECTROLYTIC
C5	22-3550	3.3 PF GIMMICK ±10%	C87	22-5175	200 MFD ELECTROLYTIC
C6	22-4613	.001 F.T.			
C7	22-5037	.005 MFD DISC ±20%	R1	63-4143	100 OHMS ±10%
C8	22-2428	1.8 PF GIMMICK ±10%	R2	63-4199	2.2K OHMS ±10%
C9	22-3621	22 PF DISC ±5%	R3	63-4196	1.8K OHMS ±10%
C10	22-5130	8 PF DISC ±5%	R4	63-4231	12K OHMS ±10%
C11			R5	63-4245	27K OHMS ±10%
C12	22-4613	.001 F.T.	R6	63-4213	4.7K OHMS ±10%
C13	22-4613	.001 F.T.	R7	63-6495	POTENTIOMETER
C14	22-3034	.05 MFD DISC ±20%	R8	63-5192	POTENTIOMETER
C15	22-4523	1.1 PF GIMMICK ±10%	R9	63-5634	47 OHMS ±10%
C16	22-3034	.05 MFD DISC ±20%	R10A	63-6855	DUAL BASS CONTROL
C17	22-3034	.05 MFD DISC ±20%	R10B	63-6855	DUAL BASS CONTROL
C18	22-3034	.05 MFD DISC ±20%	R11A	63-6853	DUAL TREBLE CONTROL
C19	22-3034	.05 MFD DISC ±20%	R11B	63-6853	DUAL TREBLE CONTROL
C20	22-5037	.005 DISC ±20%	R12A	63-6854	DUAL LOUDNESS CONTROL
C21			R12B	63-6854	DUAL LOUDNESS CONTROL
C22	22-4523	1.1 PF GIMMICK ±10%	R13	63-6049	330 OHMS ±10%
C23	22-3675	10 PF DISC ±10%	R14	63-6049	330 OHMS ±10%
C24	22-3400	3.9 PF GIMMICK ±10%			
C25	22-3034	.05 MFD DISC ±20%	T1	95-2236	1st I.F. TRANSFORMER F.M. 10.7 MC
C26	22-2428	1.8 PF GIMMICK ±10%	T2	95-2437	2nd I.F. TRANSFORMER F.M. 10.7 MC
C27	22-3034	.05 MFD DISC ±20%	T3	95-2438	3rd I.F. TRANSFORMER F.M. 10.7 MC
C28	22-3034	.05 MFD DISC ±20%	T4	95-2324	RATIO DETECTOR TRANSFORMER 10.7 MC
C29	22-14	.0047 MFD DISC ±10%	T5	95-2316	TRAP COIL 67KC
C30	22-3896	5 MFD ELECTROLYTIC	T6	95-2234	2nd I.F. TRANSFORMER A.M. 455KC
C31	22-13	.0033 MFD DISC ±10%	T7	95-2436	3rd I.F. TRANSFORMER A.M. 455KC
C32	22-14	.0047 MFD DISC ±10%	T8	95-2233	1st I.F. TRANSFORMER A.M. 455KC
C33	22-5037	.005 DISC ±20%	T9	95-2439	38 KC TRANSFORMER
C34	22-2729	.001 DISC ±20%	T10	95-2313	DOUBLER MIXER TRANSFORMER
C35	22-3177	390 PF DISC ±10%	T11	95-2315	INPUT MIXER TRANSFORMER 19 KC
C36	22-3177	390 PF DISC ±10%	T12	95-2432	POWER TRANSFORMER
C37	22-3448	10 MFD ELECTROLYTIC	T13	95-2430	DRIVER TRANSFORMER
C38	22-5018	.47 MFD ±10% MYLAR	T14	95-2430	DRIVER TRANSFORMER
C39A	22-4674	TWO SECTIONS VARIABLE CAP.			
C39B	22-4674	TWO SECTIONS VARIABLE CAP.	L1	5-71997	FM ANTENNA COIL ASSEMBLY
C39C	22-4674	TWO SECTIONS VARIABLE CAP.	L2	5-68976	FM DETECTOR COIL ASSEMBLY
C39D	22-4674	TWO SECTIONS VARIABLE CAP.	L3	20-1256	TRAP COIL
C40	22-3033	.02 MFD DISC ±20%	L4	5-62887	FM OSCILLATOR COIL ASSEMBLY
C41	22-5188	.1 MFD ±10% MYLAR	L5	IN T1	1st I.F. PRI. 10.7 MC
C42	22-3010	.01 MFD DISC ±20%	L6	IN T1	1st I.F. SEC. 10.7 MC
C43	22-3034	.05 DISC ±20%	L7	IN T2	2nd I.F. PRI. 10.7 MC
C44	22-3034	.05 DISC ±20%	L8	IN T2	2nd I.F. SEC. 10.7 MC
C45	22-3034	5 MFD ELECTROLYTIC	L9	IN T3	3rd I.F. PRI. 10.7 MC
C46	22-3034	.05 MFD DISC ±20%	L10	IN T3	3rd I.F. SEC. 10.7 MC
C47	22-3034	.05 MFD DISC ±20%	L11	IN T4	RATIO DET. PRI. 10.7 MC
C48	22-3034	.05 MFD DISC ±20%	L12	IN T4	RATIO DET. SEC. 10.7 MC
C49	22-3645	1000 PF MICA CAP ±10%	L13	IN T5	TRAP COIL MIXER
C50	22-3010	.01 MFD DISC ±20%	L14	IN T6	2nd I.F. A.M. 455 KC
C51			L15	IN T7	3rd I.F. A.M. 455 KC
C52	22-13	.0033 MFD DISC ±10%	L16	20-1422	FM COIL
C53	22-13	.0033 MFD DISC ±10%	L17	5-73253	AM ANTENNA ASSEMBLY
C54	22-5018	.47 MFD MYLAR ±10%	L18	149-333	IRON CORE SLEEVE
C55	22-3896	5 MFD ELECTROLYTIC	L19	5-66580	AM OSCILLATOR COIL ASSEMBLY
C56	22-3	.01 MFD DISC	L20	IN T8	1st AM I.F. PRI. 455 KC
C57	22-3	.01 MFD DISC	L21	IN T8	1st AM I.F. SEC. 455 KC
C58	22-5167	1000 MFD ELECTROLYTIC	L22	IN T9	38 KC TRANSFORMER
C59A	22-4620	500 MFD ELECTROLYTIC	L23	IN T10	DOUBLER MIXER TRANSFORMER
C59B	22-4620	200 MFD ELECTROLYTIC	L24	IN T11	INPUT MIXER TRANSFORMER
C60			L25	149-333	IRON CORE SLEEVE
C61					
C62	22-3034	.05 MFD DISC ±20%	PL1	100-384	STEREO IND. BULB
C63	22-3034	.05 MFD DISC ±20%	PL2	100-249	PILOT LIGHT #1847
C64	22-3973	100 MFD ELE CTROLYTIC	PL3	100-249	PILOT LIGHT #1847
C65	22-3588	.47 MFD DISC	S1	85-19	5 POSITION BAND SWITCH
C66	22-3588	.47 MFD DISC	S2A	85-892	STEREO MONAURAL SWITCH
C67	22-3896	5 MFD ELECTROLYTIC	S2B	85-892	STEREO MONAURAL SWITCH
C68	22-3896	5 MFD ELECTROLYTIC			
C69	22-18	.0022 MFD DISC	A1	105-78	R/C NETWORK
C70	22-18	.0022 MFD DISC			
C71					
C72	22-5249	.22 MFD DISC ±10%	X1	103-39	SILICON DIODE
C73	22-5249	.22 MFD DISC ±10%	X2	103-23	DIODE
C74	22-5182	.033 MFD DISC	X3	103-74	CRYSTAL DIODE
C75	22-5182	.033 MFD DISC	X4	103-23	DIODE
C76	22-3896	5 MFD ELECTROLYTIC	X5	103-23	DIODE
C77	22-3896	5 MFD ELECTROLYTIC	X6	103-23	DIODE
C78	22-4628	2 x 100 MFD ELECTROLYTIC	X7	103-23	DIODE
C79	22-3644	20 PF MICA	X8	212-71	SILICON RECTIFIER
C80	22-3644	20 PF MICA	X9	212-71	SILICON RECTIFIER
C81			X10	103-96	ZENER DIODE
C82	22-3630	.068 MFD MYLAR			



No.	PART No.	DESCRIPTION	REQD
TR 1	121-383	FM - R.F.	
TR 2	121-428	FM. CONV.	
TR 3	121-414	AM - FM	
TR 4	121-415	AM - FM	
TR 5	121-415	FM	
TR 6	121-26	A.M. CONV.	
TR 7	121-348	38 KC AMP.	
TR 8	121-348	19 KC AMP.	
TR 9	121-348	COMP. AMP.	
TR 10	121-348	STEREO IND. SW.	
TR 11	121-433	PRE-AMP	
TR 12	121-433	PRE-AMP	
TR 13	121-434	DRIVER	
TR 14	121-434	DRIVER	
TR 15	121-403	POWER AMP	
TR 16	121-403	POWER AMP	
TR 17	121-403	POWER AMP.	
TR 18	121-403	POWER AMP	

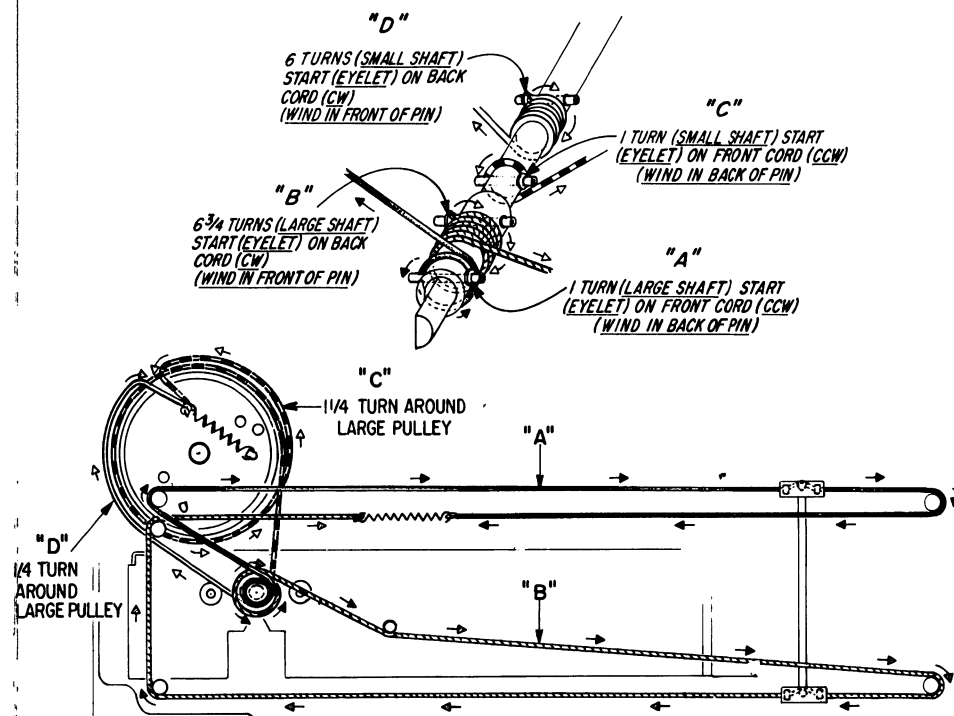


18XT20 & 18XT20Z CHASSIS LAYOUT



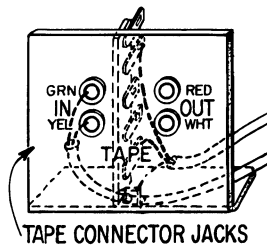
20XT20 & 20XT20Z SCHEMATIC

ITEM NO.	PART NO.	DESCRIPTION	ITEM NO.	PART NO.	DESCRIPTION
C1	22-3177	390 PF DISC ± 10%	C92	22-2376	47 PF ± 10%
C2	22-4613	.001 F.T.	C93	22-5315	300 MFD ELECTROLYTIC
C3	22-5321	36 PF DISC ± 5%	C94	22-5315	300 MFD ELECTROLYTIC
C4	22-4613	.001 F.T. ± 20%			
C5	22-3550	3.3 PF GIMMICK ± 10%	R1	63-4143	100 OHMS ± 10%
C6	22-4613	.001 F.T.	R2	63-4213	2.2K OHMS ± 10%
C7	22-5037	.005 MFD DISC ± 20%	R3	63-4196	1.8K OHMS ± 10%
C8	22-2428	1.8 PF GIMMICK ± 10%	R4	63-4231	12K OHMS ± 10%
C9	22-3621	22 PF DISC ± 5%	R5	63-4245	27K OHMS ± 10%
C10	22-5130	8 PF DISC ± 5%	R6	63-4213	4.7K OHMS ± 10%
C11			R7	63-4495	POTENTIOMETER
C12	22-4613	.001 F.T.	R8	63-5192	POTENTIOMETER 10K
C13	22-4613	.001 F.T.	R9	63-6066	820 OHMS ± 10%
C14	22-3034	.05 MFD DISC ± 20%	R10	63-6045	270 OHMS ± 10%
C15	22-4523	1.1 PF GIMMICK ± 10%	R11		
C16	22-3034	.05 MFD DISC ± 20%	R12	63-6010	39 OHMS ± 10%
C17	22-3034	.05 MFD DISC ± 20%	R13A	63-6854	DUAL LOUDNESS CONTROL
C18	22-3034	.05 MFD DISC ± 20%	R13B	63-6854	
C19	22-3034	.05 MFD DISC ± 20%	R14A	63-6861	TREBLE FRONT
C20	22-5038	.005 DISC ± 20%	R14B	63-6861	TREBLE REAR
C21			R15A	63-6889	DUAL BASS CONTROL
C22	22-4523	1.1 PF GIMMICK ± 10%	R16B	63-6889	
C23	22-3675	10 PF DISC ± 10%	R16	63-6059	560 OHMS ± 10%
C24	22-3400	3.9 PF GIMMICK ± 10%	R17	63-6059	560 OHMS ± 10%
C25	22-3034	.05 MFD DISC ± 20%	R18	63-6066	820 OHMS ± 10%
C26	22-2428	1.8 PF GIMMICK ± 10%	R19	63-6066	820 OHMS ± 10%
C27	22-3034	.05 MFD DISC ± 20%	R20	63-5325	1 OHM ± 10%
C28	22-3034	.05 MFD DISC ± 20%	R21		
C29	22-14	.0047 MFD DISC ± 10%	R22	63-5325	1 OHM ± 10%
C30	22-3896	5 MFD ELECTROLYTIC	R23	63-5325	1 OHM ± 10%
C31	22-13	.0033 MFD DISC ± 10%	R24	63-5325	1 OHM ± 10%
C32	22-14	.0047 MFD DISC ± 10%			
C33	22-5037	.005 DISC ± 20%	T1	95-2236	1st I.F. TRANSFORMER F.M. 10.7 MC
C34	22-2729	.001 DISC ± 20%	T2	95-2437	2nd I.F. TRANSFORMER F.M. 10.7 MC
C35	22-3177	390 PF DISC ± 10%	T3	95-2438	3rd I.F. TRANSFORMER F.M. 10.7 MC
C36	22-3177	390 PF DISC ± 10%	T4	95-2324	RATIO DETECTOR TRANSFORMER 10.7
C37	22-3448	10 MFD ELECTROLYTIC	T5	95-2316	TRAP COIL
C38	22-5018	.47 MFD ± 10%	T6	95-2234	2nd I.F. TRANSFORMER A.M. 455 KC
C39A	22-4674	TWO SECTIONS VARIABLE CAP.	T7	95-2436	3rd I.F. TRANSFORMER A.M. 455 KC
C39B	22-4674	TWO SECTIONS VARIABLE CAP.	T8	95-2233	1st I.F. TRANSFORMER A.M. 455 KC
C39C	22-4674	TWO SECTIONS VARIABLE CAP.	T9	95-2439	38 KC TRANSFORMER
C39D	22-4674	TWO SECTIONS VARIABLE CAP.	T10	95-2313	DOUBLER MIXER TRANSFORMER
C40	22-3033	.02 MFD DISC ± 20%	T11	95-2315	INPUT MIXER TRANSFORMER
C41	22-5188	.01 MFD ± 10%	T12	95-2433	POWER TRANSFORMER
C42	22-3010	.01 MFD DISC ± 20%	T13	95-2431	DRIVER TRANSFORMER
C43	22-3034	.05 DISC ± 20%	T14	95-2431	DRIVER TRANSFORMER
C44	22-3034	.05 DISC ± 20%			
C45	22-3896	5 MFD ELECTROLYTIC	L1	S-71997	FM ANTENNA COIL ASSEMBLY
C46	22-3034	.05 MFD DISC ± 20%	L2	S-68976	FM DETECTOR COIL ASSEMBLY
C47	22-3034	.05 MFD DISC ± 20%	L3	20-1256	TRAP COIL
C48	22-3034	.05 MFD DISC ± 20%	L4	S-62887	FM OSCILLATOR COIL ASSEMBLY
C49	22-3645	1000 PF MICA CAP ± 10%	L5	IN T1	1st I.F. PRI. 10.7 MC
C50	22-3010	.01 MFD DISC ± 20%	L6	IN T1	1st I.F. SEC. 10.7 MC
C51			L7	IN T2	2nd I.F. PRI. 10.7 MC
C52	22-13	.0033 MFD DISC ± 10%	L8	IN T2	2nd I.F. SEC. 10.7 MC
C53	22-13	.0033 MDS DISC ± 10%	L9	IN T3	3rd I.F. PRI. 10.7 MC
C54	22-5018	.47 MFD ± 10%	L10	IN T3	3rd I.F. SEC. 10.7 MC
C55	22-3896	5 MFD ELECTROLYTIC	L11	IN T4	RATIO DET. PRI. 10.7 MC
C56	22-3	.01 MFD DISC	L12	IN T4	RATIO DET. SEC. 10.7 MC
C57	22-3	.01 MFD DISC	L13	IN T5	TRAP COIL MIXER
C58	22-3879	1000 MFD ELECTROLYTIC	L14	IN T6	2nd I.F. A.M. 455 KC
C59	22-5316	500 MFD ELECTROLYTIC	L15	IN T7	3rd I.F. A.M. 455 KC
C60	22-3896	.05 MFD DISC ± 20%	L16	20-1422	TRAP COIL 10.7 MC
C61			L17	S-73253	AM ANTENNA ASSEMBLY
C62	22-5167	1000 MFD ELECTROLYTIC	L18	149-333	IRON CORE SLEEVE
C63	22-3973	100 MFD ELECTROLYTIC	L19	S-66580	AM OSCILLATOR COIL ASSEMBLY
C64	22-3034	.05 MFD DISC ± 20%	L20	IN T8	1st AM I.F. PRI. 455 KC
C65	22-3034	.05 MFD DISC ± 20%	L21	IN T8	1st AM I.F. SEC. 455 KC
C66	22-3687	1 MFD ELECTROLYTIC	L22	IN T9	38 KC TRANSFORMER
C67	22-3687	1 MFD ELECTROLYTIC	L23	IN T10	DOUBLER MIXER TRANSFORMER
C68			L24	IN T11	INPUT MIXER TRANSFORMER
C69			L25	149-333	IRON CORE SLEEVE
C70	22-3687	1 MFD ELECTROLYTIC	PL1	100-384	STEREO IND. BULB
C71			PL2	100-249	PILOT LIGHT #1847
C72	22-5012	.15 MFD ± 10%	PL3	100-249	PILOT LIGHT #1847
C73	22-5012	.15 MFD ± 10%	PL4	100-249	PILOT LIGHT #1847
C74	22-5012	.15 MFD ± 10%			
C75	22-3255	330 PF ± 10%	S1	85-920	6 POSITION BANDSWITCH
C76	22-3255	330 PF ± 10%	S2	85-892	STEREO MONAURAL SWITCH
C77	22-3599	.015 MFD ± 10%			
C78	22-3599	.015 MFD ± 10%			
C79	22-3415	.0068 MFD ± 10%	A1	105-78	R/C NETWORK
C80	22-3415	.0068 MFD ± 10%			
C81			X1	103-39	SILICON DIODE
C82	22-3596	.1 MFD ± 20%	X2	103-23	DIODE
C83	22-3596	.1 MFD ± 20%	X3	103-74	CRYSTAL DIODE
C84	22-5056	.02 MFD DISC ± 20%	X4	103-23	DIODE
C85	22-5056	.02 MFD DISC ± 20%	X5	103-23	DIODE
C86	22-5012	.15 MFD ± 10%	X6	103-23	DIODE
C87	22-5012	.15 MFD ± 10%	X7	103-23	DIODE
C88	22-3687	1 MFD ELECTROLYTIC	X8	212-71	SILICON RECTIFIER
C89	22-3687	1 MFD ELECTROLYTIC	X9	212-71	SILICON RECTIFIER
C90	22-2376	47 PF ± 10%	X10	103-96	ZENER DIODE
C91					

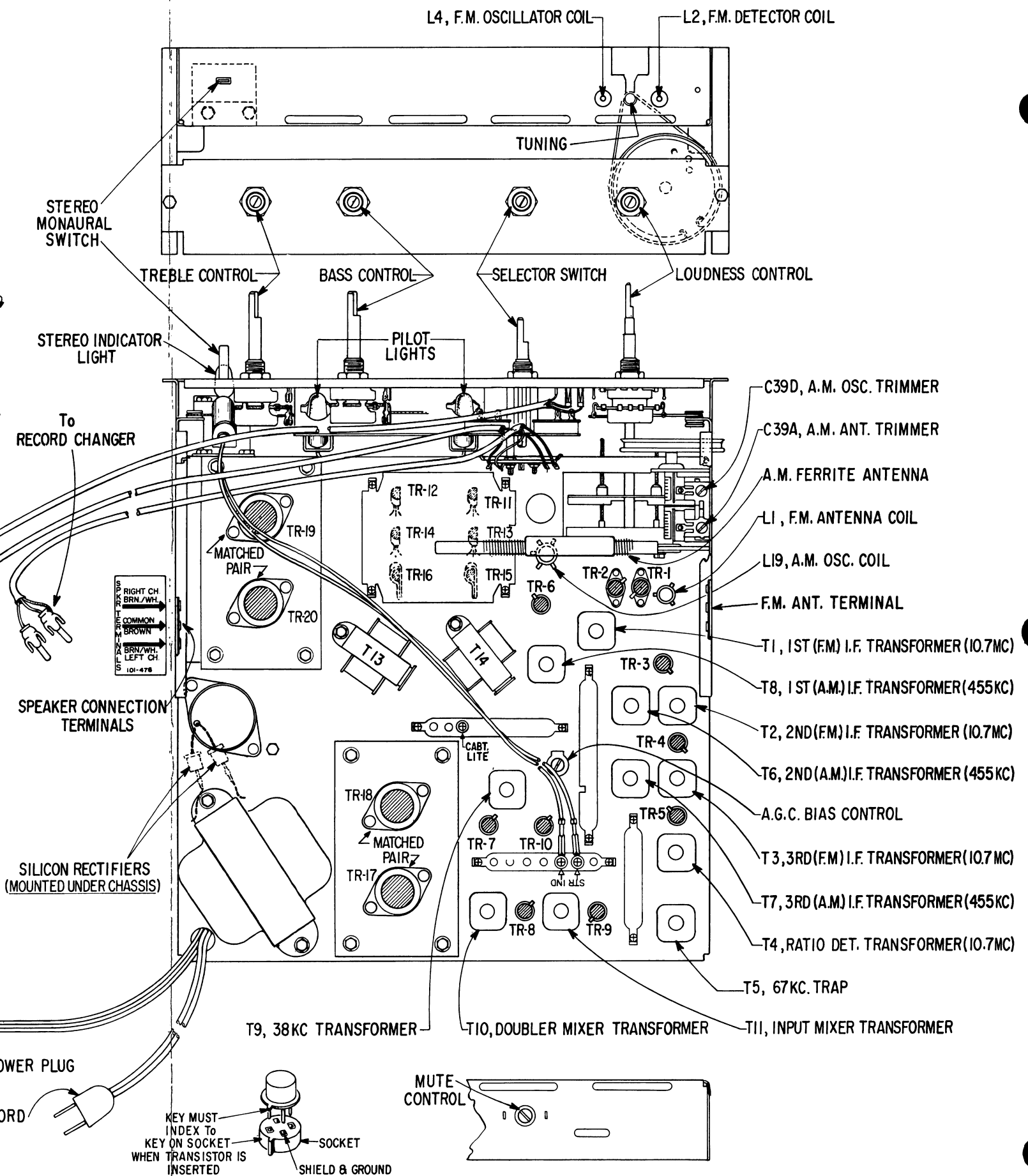


DIAL CORD DRIVE
SHOWN IN
COUNTERCLOCKWISE POSITION

A
B
C
D
(CCW) COUNTERCLOCKWISE
(CW) CLOCKWISE

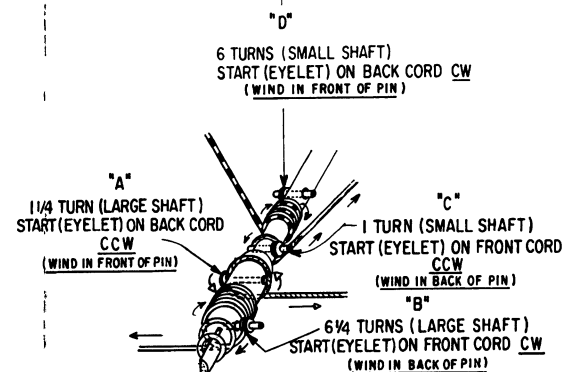
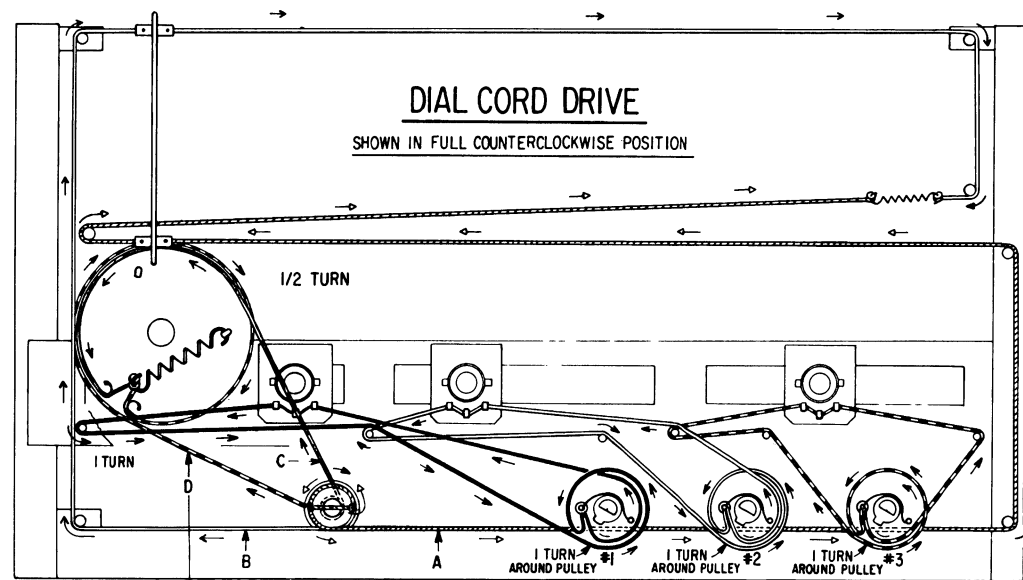


No.	PART NO.	DESCRIPTION	REQ'D
TR 1	121-383	F.M. - R.F.	
TR 2	121-428	F.M. CONV.	
TR 3	121-414	A.M. - F.M.	
TR 4	121-415	A.M. - F.M.	
TR 5	121-415	F.M.	
TR 6	421-26	A.M. CONV.	
TR 7	121-348	38 KC AMP.	
TR 8	121-348	19 KC AMP.	
TR 9	121-348	COMP. AMP.	
TR 10	121-348	STEREO IND. SW.	
TR 11	121-433	PRE-AMP	
TR 12	121-433	PRE-AMP	
TR 13	121-430	PRE-DRIVER	
TR 14	121-430	PRE-DRIVER	
TR 15	121-442	DRIVER	
TR 16	121-442	DRIVER	
TR 17	121-418	POWER AMP	
TR 18	121-418	POWER AMP	
TR 19	121-418	POWER AMP	
TR 20	121-418	POWER AMP	



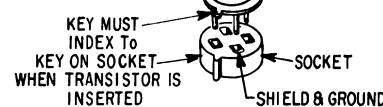
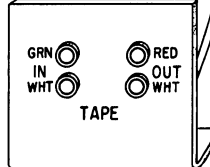
20XT20 & 20XT20Z CHASSIS LAYOUT

ITEM NO.	PART NO.	DESCRIPTION	ITEM NO.	PART NO.	DESCRIPTION
C23	322-20	.05 MFD DISC	C108	322-84	.15 MFD ±10%
C24	322-47	1.0 PF GIMMICK	C109	322-84	.15 MFD ±10%
C25	22-3652	0.1 MFD DISC	C110	322-30	5 MFD ELECTROLYTIC
C26	322-20	.05 MFD DISC	C111	322-30	5 MFD ELECTROLYTIC
C27	322-47	1.0 PF GIMMICK	C112		
C28	322-20	.05 MFD DISC	C113		
C29	322-20	.05 MFD DISC	C114	322-3	.01 MFD DISC
C30	22-3246	15 PF DISC	C115	322-3	.01 MFD DISC
C31	22-3675	10 PF DISC	C116	322-21	50 MFD ELECTROLYTIC
C32	322-20	.05 MFD DISC	C117	322-21	50 MFD ELECTROLYTIC
C33	322-20	.05 MFD DISC	C118	22-5168	300 MFD ELECTROLYTIC
C34	322-82	.0022 DISC			
C35	322-3	.01 MFD DISC	R1	63-6376	POTENTIOMETER
C36	322-47	1.0 PF GIMMICK	R2	63-5663	680 OHM
C37	322-20	.05 MFD DISC	R3	63-5192	POTENTIOMETER (MUTING)
C38	322-20	.05 MFD DISC	R4	63-6857	820 OHM
C39	322-82	.0022 DISC	R5A	63-5213	PRESENCE CONTROL (REAR)
C40	322-2	560 PF DISC ±10%	R5B		PRESENCE CONTROL (FRONT)
C41	322-20	.05 MFD DISC	R6A		BASE CONTROL (REAR)
C42	22-2374	6 PF ±10%	R6B		BASE CONTROL (FRONT)
C43	22-2434	2.0 PF GIMMICK	R7A		TREBLE CONTROL (REAR)
C44	322-20	.05 MFD DISC	R7B	63-5372	TREBLE CONTROL (FRONT)
C45	322-20	.05 MFD DISC	R8A		LOUDNESS CONTROL (REAR)
C46	382-20	.05 MFD DISC	R8B	63-6346	LOUDNESS CONTROL (FRONT)
C47	322-22	5 MFD ELECTROLYTIC			
C48	322-32	390 PF DISC	L8	20-2033	PEAKING COIL
C49	322-32	390 PF DISC	L9	20-2033	PEAKING COIL
C50	322-108	10 MFD ELECTROLYTIC	L10	IN T2	2nd I.F. TRANSFORMER (FM) PRI.
C51	22-2729	.001 MFD DISC	L11	IN T2	2nd I.F. TRANSFORMER (FM) SEC.
C52	322-20	.05 MFD DISC	L12	IN T3	3rd I.F. TRANSFORMER (AM) PRI.
C53	322-90	100 PF DISC	L13	IN T3	3rd I.F. TRANSFORMER (AM) SEC.
C54A		ANTENNA TUNING	L14	IN T4	4th I.F. TRANSFORMER (FM) PRI.
C54B		ANTENNA TRIMMER	L15	IN T4	4th I.F. TRANSFORMER (FM) SEC.
C54C	22-3665	DETECTOR TUNING	L16	IN T5	RATIO DETECTOR TRANSFORMER PRI.
C54D		DETECTOR TRIMMER	L17	IN T5	RATIO DETECTOR TRANSFORMER
C54E		OSCILLATOR TUNING	L18	IN T5	RATIO DETECTOR TRANSFORMER
C54F		OSCILLATOR TRIMMER	L19	IN T6	2nd I.F. TRANSFORMER (AM) PRI.
C55	22-5116	.01 MFD DISC ±10%	L20	IN T6	2nd I.F. TRANSFORMER (AM) SEC.
C56	322-20	.05 MFD DISC	L21	IN T7	3rd I.F. TRANSFORMER (FM) PRI.
C57	322-20	.05 MFD DISC	L22	IN T7	3rd I.F. TRANSFORMER (FM) SEC.
C58	322-20	.05 MFD DISC	L23	S-64803	AM ANTENNA (CABINET)
C59	322-20	.05 MFD DISC	L24	S-72060	ANTENNA COIL ASSEMBLY (AM)
C60	322-20	.05 MFD DISC	L25	S-69165	DETECTOR COIL ASSEMBLY (AM)
C61	322-20	.05 MFD DISC	L26	S-72828	OSCILLATOR COIL ASSEMBLY (AM)
C62	322-20	.05 MFD DISC	L27	IN T8	1st AM I.F. TRANSFORMER PRI.
C63	22-3527	.22 MFD DISC	L28	IN T8	1st AM I.F. TRANSFORMER SEC.
C64	22-4665	4300 PF DUREZ	L29	20-1422	PARALLEL TRAP
C65	322-20	.05 MFD DISC	T2		2nd I.F. TRANSFORMER (FM)
C66	322-20	.05 MFD DISC	T3	95-2328	3rd I.F. TRANSFORMER (FM)
C67	322-88	.47 MFD ±10%	T4	95-2387	4th I.F. TRANSFORMER (FM)
C68	322-40	.001 MFD DISC	T5	95-2387	RATIO DETECTOR TRANSFORMER
C69	322-40	.001 MFD DISC	T6	95-2326	2nd I.F. TRANSFORMER (AM)
C70	322-22	5 MFD ELECTROLYTIC	T7	95-2452	3rd I.F. TRANSFORMER (AM)
C71	22-3467	12 PF DISC	T8	95-2325	1st I.F. TRANSFORMER (AM)
C72	322-27	.0033 MFD DISC	T9	95-2316	TRAP COIL 67 KC
C73	322-3	.01 MFD DISC	T10	95-2315	19 KC INPUT TRANSFORMER
C74			T11	95-2313	19 KC DOUBLER TRANSFORMER
C75	322-88	.47 MFD ±10%	T12	95-2314	38 KC DETECTOR TRANSFORMER
C76	322-105	.022 MFD	A1	105-93	38 KC FILTER
C77	322-40	.001 MFD DISC	A2	105-93	38 KC FILTER
C78	322-40	.001 MFD DISC	M1	S-69172	HOUSING & CABLE ASSBLY. (6 CONTACT)
C79	322-3	.01 MFD DISC	M2		HOUSING & CABLE ASSBLY. (9 CONTACT)
C80	322-3	.01 MFD DISC	M3	S-71064	TAPE CONNECTOR & PLUG ASSBLY.
C81	322-26	2 MFD ELECTROLYTIC	M4		TAPE CONNECTOR & BRKT. ASSBLY.
C82	322-26	2 MFD ELECTROLYTIC	M5	422-3	TUNING METER
C83	22-3255	.330 PF DISC ±10%	PL1	100-384	STEREO INDICATOR BULB
C84	22-3255	.330 PF DISC ±10%	PL2	100-249	PILOT LIGHT #1847
C85	322-72	1 MFD ELECTROLYTIC	PL3	100-249	PILOT LIGHT #1847
C86	322-72	1 MFD ELECTROLYTIC	PL4	100-249	PILOT LIGHT #1847
C87	22-5184	.047 MFD ±10%	PL5	100-249	PILOT LIGHT #1847
C88	22-3891	.0068 MFD ±10%	PL6	100-249	PILOT LIGHT #1847
C89	22-3891	.0068 MFD ±10%	PL7	100-249	PILOT LIGHT #1847
C90	322-105	.022 MFD ±10%	PL8	100-249	PILOT LIGHT #1847
C91	322-105	.022 MFD ±10%	PL9	100-249	PILOT LIGHT #1847
C92	322-72	1 MFD ELECTROLYTIC	PL10	100-249	PILOT LIGHT #1847
C93	322-72	1 MFD ELECTROLYTIC	S1	85-864	A.C. SWITCH
C94	322-105	.022 MFD ±10%	S2	85-863	PUSH BUTTON BANDSWITCH
C95	322-105	.022 MFD ±10%	X1	103-23	DIODE
C96	322-105	.022 MFD ±10%	X2	103-23	DIODE
C97	322-105	.022 MFD ±10%	X3	103-23	DIODE
C98	322-30	.5 MFD ELECTROLYTIC	X4	103-23	DIODE
C99	322-30	.5 MFD ELECTROLYTIC	X5	103-96	DIODE (ZENER)
C100	322-21	.50 MFD ELECTROLYTIC			
C101	322-21	.50 MFD ELECTROLYTIC			
C102	322-84	.15 MFD ±10%			
C103	322-84	.15 MFD ±10%			
C104	322-84	.15 MFD ±10%			
C105	322-84	.15 MFD ±10%			
C106	22-3891	.0068 MFD ±10%			
C107	22-3891	.0068 MFD ±10%			

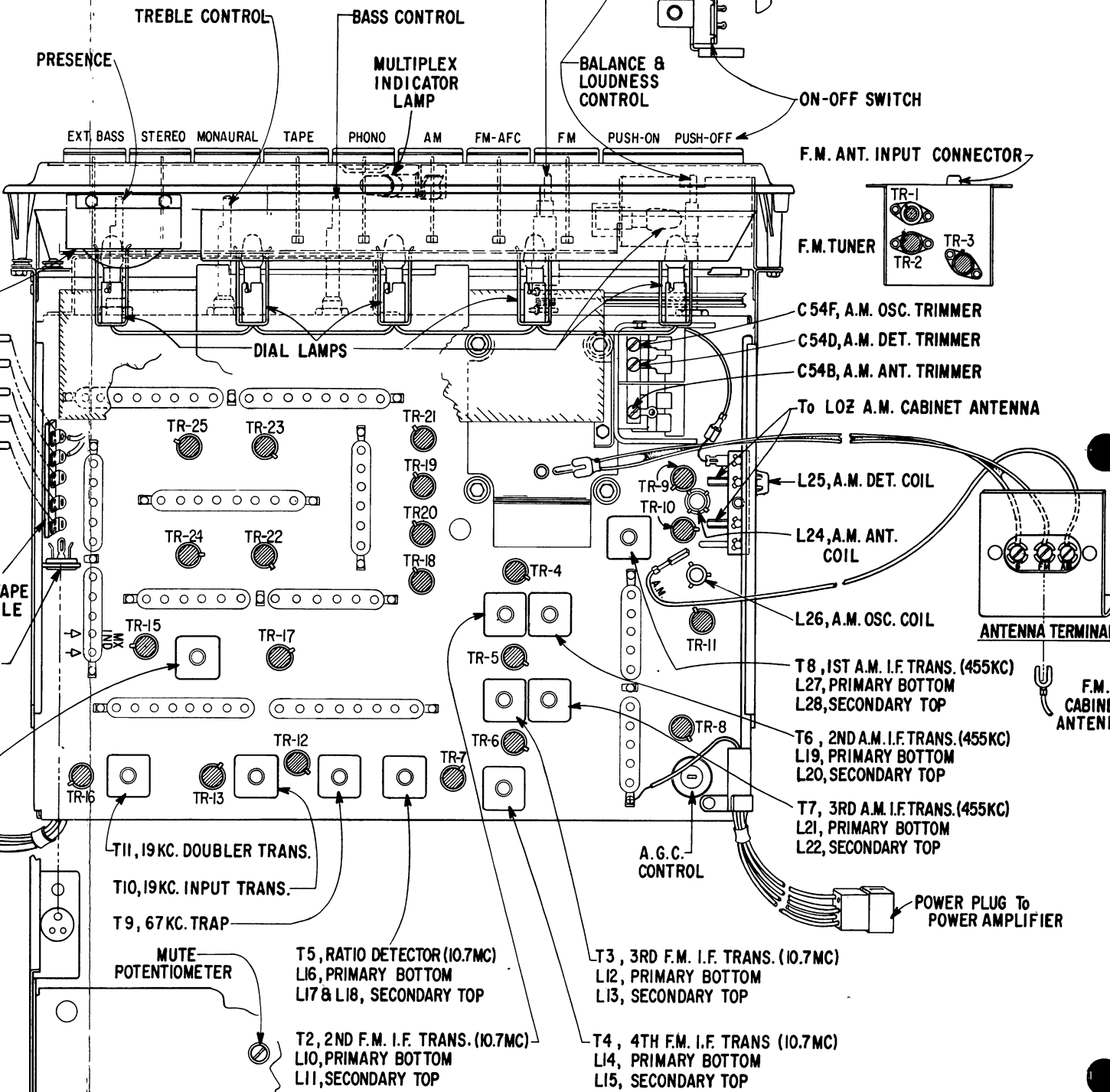


No	PART NO	DESCRIPTION
TR-1	121-383	F.M. R.F.
TR-2	121-428	F.M. MIXER
TR-3	121-432	F.M. OSC.
TR-4	121-414	F.M. AM 1st I.F.
TR-5	121-415	F.M. AM 2nd I.F.
TR-6	121-415	F.M. 3rd I.F.
TR-7	121-415	F.M. 4th I.F.
TR-8	121-273	A.G.C. AMP
TR-9	121-333	A.M. R.F.
TR-10	121-333	A.M. MIXER
TR-11	121-335	A.M. OSC.
TR-12	121-348	COMPOSITE AMP.
TR-13	121-348	19KC AMP.
TR-15	121-348	38KC AMP.
TR-16	121-348	STEREO IND. SWITCH
TR-17	121-347	81 PLEX DET.
TR-18	121-273	PRE AMP.
TR-19	121-273	PRE AMP.
TR-20	121-273	PRE AMP.
TR-21	121-273	PRE AMP.
TR-22	121-274	PRE AMP.
TR-23	121-274	PRE AMP.
TR-24	121-437	1st AUDIO

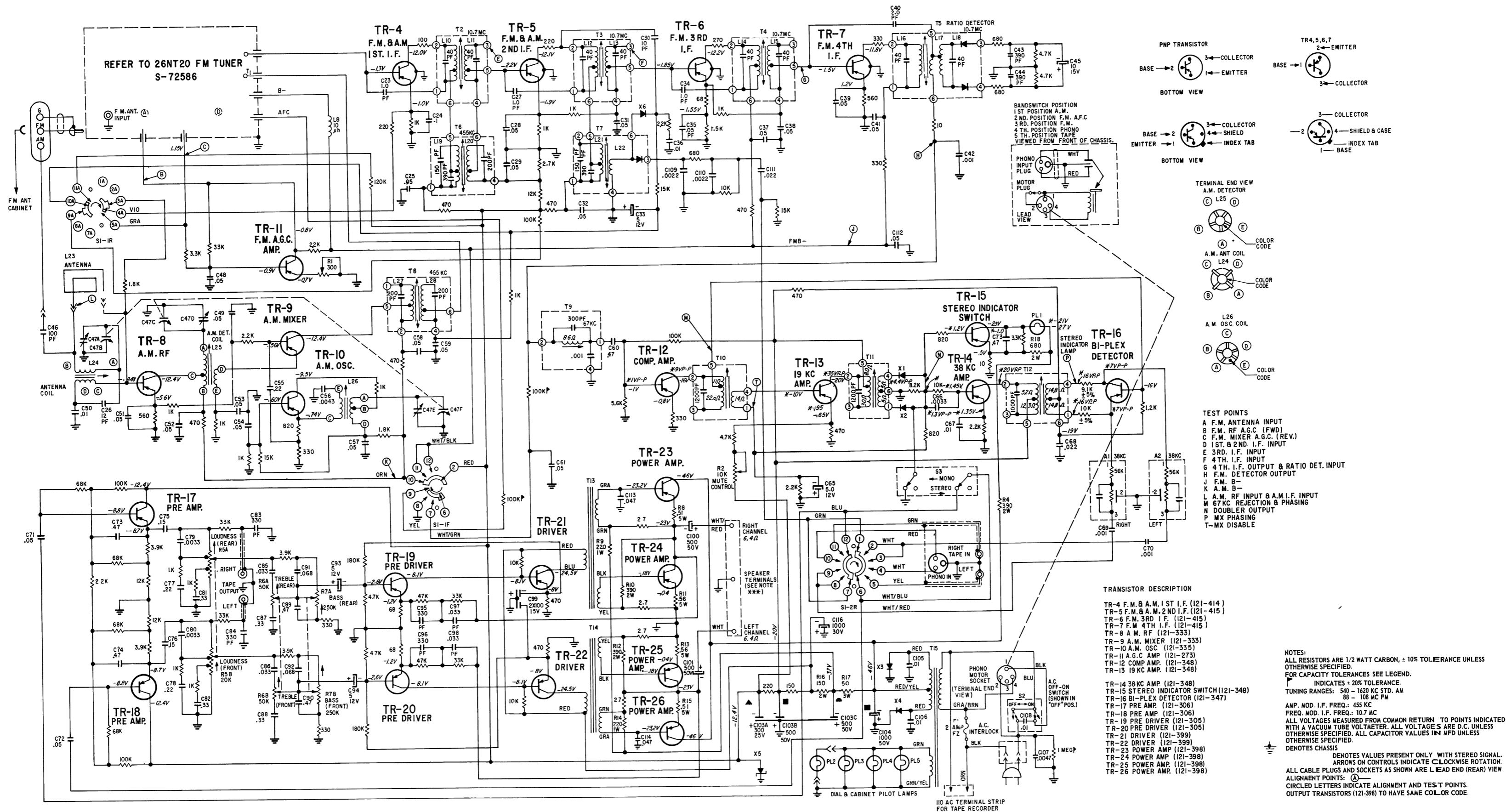
TAPE JACK & BRACKET
ASSEMBLY USED ON
X960 X966
X962 X968
X964 X8580



- T1, 1ST I.F. TRANSFORMER (10.7 MC)
- L5, PRIMARY BOTTOM
- L6, SECONDARY TOP
- L3, F.M. DETECTOR
- L7, F.M. OSCILLATOR
- L2, F.M. R.F.
- L1, F.M. ANTENNA

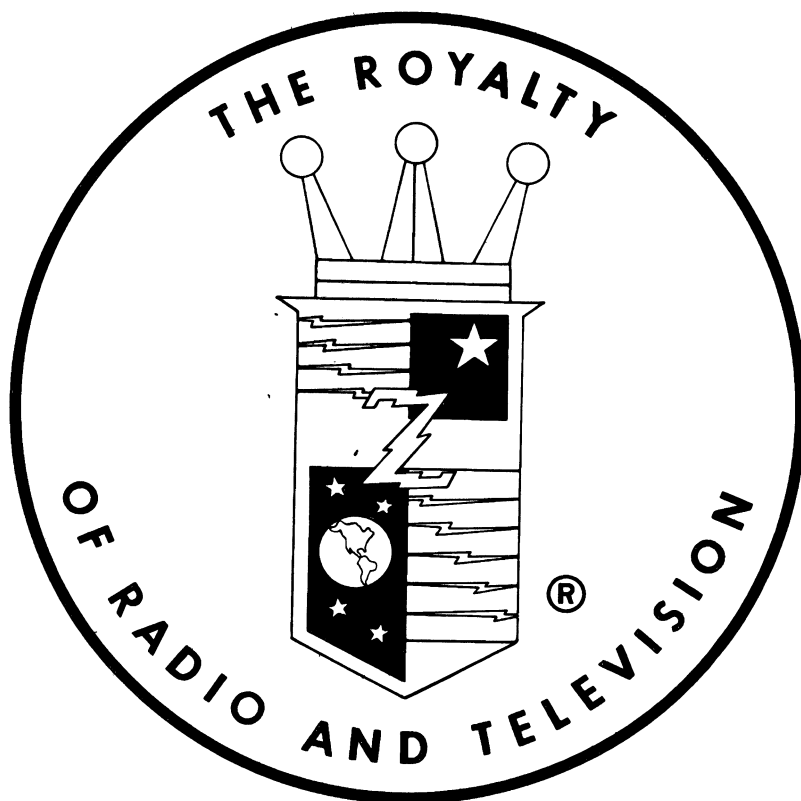


24XT24 CHASSIS LAYOUT



26X20 SCHEMATIC

NOTES



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